



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SCIENCE CENTER
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DATE : September 4, 2003
SUBJECT: Region III Data QA Review
FROM : Fredrick Foreman
Region III ESAT RPO (3EA20)
TO: Lorie Baker
Regional Program Manager (3HS34)

Attached is the organic data validation report for Elkton Farms Site (Case #:31878;S DG#:C01P0, C01Q7, C01W1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at
(410) 305-2629.

Attachment

cc: Chris Hartman (MDE)

TO#: 0011, TDF#: 0822

ANALYTICAL SERVICES AND QUALITY ASSURANCE BRANCH

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DATE: August 28, 2003

SUBJECT: Level M3 Organic Data Validation for Case 31878
SDGs: C01P0, C01Q7 and C01W1
Site: Elkton Farm

FROM: Michael Roxbury *MR* 44-CA
Senior Data Reviewer
TO: Fredrick Foreman
ESAT Region 3 Project Officer
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Senior Oversight Chemist

OVERVIEW

Case 31878, Sample Delivery Groups (SDGs) C01P0, C01Q7 and C01W1, consisted of eighteen (18) aqueous samples and thirty eight (38) soil samples submitted to Southwest Laboratories of Oklahoma (SWOK) for volatile, semivolatile and/or pesticide/PCB analyses. The sample set included three (3) trip blanks, three (3) field blanks, and five (5) field duplicate pairs. Samples were analyzed according to SOW OLM04.3 through the Routine Analysis Services (RAS) program.

SUMMARY

Data were validated according to Region III Modifications to the National Functional Guidelines for Organic Data Review, Level M3. All samples were successfully analyzed for all target compounds.

MINOR PROBLEMS

- Volatile samples C01N1, C01N2, C01N3, C01N4, C01N7 and C01N8 (SDG C01P0) arrived at the laboratory in coolers having internal temperatures of 7.1 °C and 8.6°C which exceeded the SOW requirement of 4°C ± 2°C. The "L" qualifier for positive results in these samples was superseded by "J". Quantitation limits were qualified "UL" unless superseded by "UJ" on DSFs.
- Several volatile and semivolatile target compounds failed precision criteria [Percent Difference (%D)] in continuing calibrations. Positive results for these compounds in affected samples were qualified "J" on DSFs unless superseded by "B". Quantitation limits for compounds with imprecision exceeding the fifty percent (%D>50%) criteria were qualified "UJ" on the DSFs.
- Pesticide/PCB initial calibrations performed 6/29/03, column CLP-PEST11, instrument HP-16B, 7/18/03, column DB-17, instrument HP-06A, and 7/24/03, column DB1701, instrument HP-06B reported %RSDs outside QC limits for one or more target compounds. Positive results associated with these calibration outliers were qualified "J" on DSFs.

- Pesticide/PCB data were qualified "J" on the DSFs when percent difference (%D) between results detected on the two columns exceeded the twenty-five percent (25%) criterion.

NOTES

- Concentrations of target compounds found in the analyses of sample-associated field, trip, storage and method blanks are listed below. Only compounds used to qualify results relative to blank contamination are listed. Samples with concentrations of common laboratory contaminants less than ten times (<10X) associated blank concentration or with concentrations of other contaminants less than five times (<5X) the associated blank concentration have been qualified "B".

	<u>Compound</u>		<u>Concentration</u>	<u>Associated samples</u>
(SDG C01P0)	diethylphthalate*	0.8 J	ug/L (SBLK2)	C01N8
		2 J	ug/L (FB-C01P6)	C01P9, C01Q0, C01Q2
		1 J	ug/L (FB-C01P5)	C01P0, C01P1, C01P2, C01P4
	di-n-butylphthalate*	0.9 J	ug/L (FB-C01P6)	C00Q0, C01N1, C01N3, C01N8, C01P0, C01P1, C01P3, C01P4
	bis(2-ethylhexyl)phthalate*	0.7 J	ug/L (SBLK1)	C01P0, C01P1, C01P2, C01P3, C01P4, C01P5, C01P6, C01P9, C01Q2
		2 J	ug/L (SBLK2)	C01N3, C01N4, C01N8
	heptachlor	0.031 J	ug/L (PBLKWB)	C01P0, C01P1, C01P3, C01P4, C01P5, C01P6, C01P9, C01Q0, C01Q2
		0.013 J	ug/L (PBLKWC)	C01N1, C01N2, C01N3, C01N4, C01N8
	alpha-Chlordane	0.011 J	ug/L (FB-C01P6)	C01Q0
	gamma-Chlordane	0.024 J	ug/L (FB-C01P6)	C01Q0, C01N1, C01N2, C01N4, C01N8, C01P0, C01P1
(SDG C01Q7)	methylene chloride*	2 J	ug/Kg (VBLK1)	C01R8, C01R9, C01S0, C01S1, C01S2
		1 J	ug/Kg (VBLK2)	C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R4
	di-n-butylphthalate*	1 J	ug/L (FB-C01P5)	C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R4, C01R9, C01S0, C01S1, C01S2, C01S6, C01S8, C01T4, C01T5, C01T6
	bis(2-ethylhexyl)phthalate*	0.7 B	ug/L (FB-C01PS)	C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R4, C01R8, C01T3, C01T4

	<u>Compound</u>	<u>Concentration</u>	<u>Associated samples</u>
(SDG C01Q7)	heptachlor	0.76 J ug/Kg (PBLKKSB)	C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R4, C01R8, C01S1, C01S2, C01S6, C01S8, C01S9, C01T5, C01T7
	methoxychlor	1.8 J ug/Kg (PBLKSB)	C01R0, C01R4, C01S1
(SDG C01W1)	methylene chloride*	1 J ug/Kg (VBLK1) 3 J ug/Kg (VBLK2)	C01R7 C01S4, C01S5, C01S7, C01X7, C01X8, C01Y0
	diethylphthalate*	2 J ug/L (FB-C01P6)	C01Y0
	di-n-butylphthalate*	0.9 J ug/L (FB-C01P6)	C01R2, C01R5, C01R6, C01R7, C01S5, C01S7, C01T0, C01T1, C01T2, C01T8, C01T9, C01W0, C01W1, C01X7, C01X8, C01Y0
	bia(2-ethylhexyl)phthalate*	58 J ug/Kg (SBLK2)	C01R2, C01R5, C01R6, C01R7, C01S3, C01S5, C01S7, C01T1, C01T2, C01T8, C01T9, C01W0, C01X7, C01X8, C01Y0
	heptachlor	0.56 J ug/Kg (PBLKSB)	C01R2, C01R5, C01R6, C01R7, C01S3, C01S4, C01S5, C01S7, C01T0, C01T1, C01T2, C01T8, C01T9, C01X7, C01X8, C01Y0
		0.95 J ug/Kg (PBLKSC)	C01W1
	alpha-Chlordane	0.011 J ug/Kg (FB-C01P6)	C01R5
	gamma-Chlordane	0.024 J ug/Kg (FB-C01P6)	C01R2, C01R5, C01R6, C01R7, C01S3, C01S4, C01S5, C01S7, C01T0, C01T1, C01T9, C01W0, C01X8, C01Y0

* common laboratory contaminant

- Volatile Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample C01P0 (SDG C01P0) reported recovery of spike compound trichloroethene outside upper QC limit in both MS and MSD. No data were qualified based on these QC analyses outliers.
- Volatile MS/MSD analyses of sample C01R3 (SDG C01Q7) reported recoveries of spike compounds 1,1-dichloroethene and benzene outside lower QC limits in both MS and MSD. No data were qualified based on these QC analyses outliers.

- Volatile MS/MSD analyses of sample C01S7 (SDG C01W1) reported recoveries of spike compounds 1,1-dichloroethene, trichloroethene and benzene outside lower QC limits in MS and recoveries for 1,1-dichloroethene and benzene outside lower QC limits in MSD. No data were qualified based on these QC analyses outliers.
- Semivolatile MS/MSD analyses of sample C01P0 (SDG C01P0) reported recovery of spike compound 4-nitrophenol outside upper QC limit in MSD. No data were qualified based on this QC analysis outlier.
- Semivolatile MS/MSD analyses of sample C01S7 (SDG C01W1) reported recovery of spike compound pentachlorophenol outside lower QC limit in both MS and MSD. Additionally, the Relative Percent Difference for pyrene was outside QC limits. No data were qualified based on these QC analyses outliers.
- Semivolatile sample C01N2 (SDG C01P0) reported recovery of a single base/neutral fraction surrogate outside lower QC limits. No data were qualified based on this single surrogate recovery outlier.
- Semivolatile and pesticide/PCB samples C01N1,C01N2, C01N3, C01N4, C01N7 and C01N8 (SDG C01P0) arrived at the laboratory in coolers having internal temperatures of 7.1 °C and 8.6°C which exceeded the SOW requirement of 4°C ± 2°C. Due to the stability of semivolatile and pesticide/PCB target compounds, no data in these samples were qualified based on transport temperature criteria.
- Pesticide/PCB continuing calibration verifications performed 7/25/03 after undiluted analyses of samples C01R5, C01R7, C01S5, C01T2, and C01X7 indicated several compounds with precisions outside QC limits. The laboratory identified these samples in the narrative as dark in extract color and associated the failed continuing calibration verifications with the samples matrix. Laboratory reanalyzed samples at dilution with continuing calibration verifications within QC limits. The only positive result reported in any undiluted analysis (4,4'-DDE in sample C01R6) was previously qualified "J" for being less than CRQL. No data were qualified based on failed continuing calibration results associated with the undiluted analyses.
- Non-spiked compounds, other than blank contaminants, were detected in samples, matrix spikes (MS), and matrix spike duplicates (MSD). Results and precision estimates are tabled below. Units are ug/Kg for samples C01R3 and C01S7 and in units of ug/L for sample C01P0.

	<u>C01P0</u>	<u>C01P0MS</u>	<u>C01P0MSD</u>	<u>%RSD</u>
endrin ketone	ND	0.059 J	0.058 J	2*
	<u>C01R3</u>	<u>C01R3MS</u>	<u>C01R3MSD</u>	<u>%RSD</u>
acetone	51 J	40 J	44 J	12
carbon disulfide	2 J	2 J	2 J	0
methyl acetate	ND	5 J	32	146*
2-butanone	11 J	8 J	4 J	46
2,4-dichlorophenol	ND	22 J	ND	IN
bis(2-ethylhexyl)phthalate	2400 J	1700 J	1800 J	19
4,4'-DDD	ND	5.2	5.2	0*
endrin ketone	ND	3.6 J	3.4 J	6*

	<u>C01S7</u>	<u>C01S7MS</u>	<u>C01S7MSD</u>	<u>%RSD</u>
acetone	110 J	110 J	130 J	10
methyl acetate	33 J	70 J	130 J	66
2-butanone	16 J	13 J	16 J	12
dibenzofuran	ND	ND	35 J	IN
fluorene	ND	ND	85 J	IN
phenanthrene	ND	ND	840	IN
anthracene	ND	ND	160 J	IN
carbazole	ND	ND	33 J	IN
fluoranthene	ND	26 J	1000	190*
benzo(a)anthracene	ND	ND	420	IN
chrysene	ND	22 J	460	182*
benzo(b)fluoranthene	22 J	20 J	390	148
benzo(k)fluoranthene	ND	ND	290 J	IN
benzo(a)pyrene	ND	ND	320 J	IN
indeno(1,2,3-cd)pyrene	ND	ND	200 J	IN
dibenzo(a,h)anthracene	ND	ND	110 J	IN
benzo(g,h,i)perylene	ND	ND	150 J	IN

%RSD = Percent Relative Standard Deviation

* Relative Percent Difference reported

ND = Not detected

IN = Indeterminant

- Compounds detected below CRQLs were qualified "J" unless superseded by "B" on DSFs.
- Volatile, semivolatile and pesticide/PCB soil samples were analyzed using analytical or extracted samples mass other than mass prescribed by SOW OLM04.3. Dilution factors reported on DSFs were adjusted to reflect actual sample mass used.
- Volatile soil samples associated with this case were collected using ENCORE sampling equipment.
- Tentatively Identified Compounds (TICs) were reviewed during data validation. Compounds identified as condensation reaction products, laboratory artifacts (siloxanes) or blank contaminants were crossed off TIC Form Is during review. Compound identifications were changed to "unknown" when the same compound was reported as eluting at different retention times. TIC Form Is were included in Appendix C only for samples reporting positive TIC results.

All data for Case 31878, SDGs C01P0, C01Q7 and C01W1, were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review, September 1994.

ATTACHMENTS

- 1) Appendix A Glossary of Data Qualifier Terms
- 2) Appendix B Data Summary Forms
- 3) Appendix C Tentatively Identified Compounds
- 4) Appendix D Chain of Custody Records
- 5) Appendix E Laboratory Case Narratives

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01N1	C01N2	C01N3	C01N4	C01N7						
Sampling Location :	GWD1	GWU1	GWU2	GWU3	GWU6						
Field QC:	Water	Water	Water	Water	Trip Blank						
Matrix :	ug/L	ug/L	ug/L	ug/L	Water						
Units :					ug/L						
Date Sampled :	06/26/2003	06/26/2003	06/26/2003	06/26/2003	06/26/2003						
Time Sampled :	12:45	10:35	10:00	11:10	11:20						
pH :	<2	<2	<2	<2	<2						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UL		UL		UL		UL		UL	
Chloromethane	10	UL		UL	1	J		UL		UL	
*Vinyl Chloride	10	UL		UL		UL		UL		UL	
Bromomethane	10	UL		UL		UL		UL		UL	
Chloroethane	10	UL		UL		UL		UL		UL	
Trichlorofluoromethane	10	UL		UL		UL		UL		UL	
*1,1-Dichloroethene	10	UL	4	J		UL		UL		UL	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	UL		UL		UL		UL		UL	
Acetone	10	UL		UL		UL		UL		UL	
Carbon Disulfide	10	UL		UL		UL		UL		UL	
Methyl Acetate	10	UL		UL		UL		UL		UL	
*Methylene Chloride	10	UL		UL		UL		UL		UL	
trans-1,2-Dichloroethene	10	UL		UL		UL		UL		UL	
Methyl tert-Butyl Ether	10	UJ		UJ		UJ		UJ		UJ	
1,1-Dichloroethane	10	UL		UL		UL		UL		UL	
cis-1,2-Dichloroethene	10	UL		UL		UL		UL		UL	
*2-Butanone	10	UL		UL		UL		UL		UL	
Chloroform	10	UL		UL		UL		UL		UL	
*1,1,1-Trichloroethane	10	UL		UL		UL		UL		UL	
Cyclohexane	10	UL		UL		UL		UL		UL	
*Carbon Tetrachloride	10	UL		UL		UL		UL		UL	
*Benzene	10	UL		UL		UL		UL		UL	
*1,2-Dichloroethane	10	UL		UL		UL		UL		UL	
Trichloroethene	10	UL		UL		UL		UL		UL	
Methylcyclohexane	10	UL		UL		UL		UL		UL	
*1,2-Dichloropropane	10	UL		UL		UL		UL		UL	
Bromodichloromethane	10	UL		UL		UL		UL		UL	
cis-1,3-Dichloropropene	10	UL		UL		UL		UL		UL	
4-Methyl-2-pentanone	10	UL		UL		UL		UL		UL	
*Toluene	10	UL		UL		UL		UL		UL	
trans-1,3-Dichloropropene	10	UL		UL		UL		UL		UL	
1,1,2-Trichloroethane	10	UL		UL		UL		UL		UL	
*Tetrachloroethene	10	UL		UL		UL		UL		UL	

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

ELKTON FARM

Lab. : SWOK

SDG : C01P0

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01N1	C01N2	C01N3	C01N4	C01N7
Sampling Location :	GWD1	GWU1	GWU2	GWU3	GWU6
Field QC:					Trip Blank
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/26/2003	06/26/2003	06/26/2003	06/26/2003	06/26/2003
Time Sampled :	12:45	10:35	10:00	11:10	11:20
pH :	<2	<2	<2	<2	<2
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Volatile Compound	CRQL	Result	Flag	Result	Flag
2-Hexanone	10	UL		UL	
Dibromochloromethane	10	UL		UL	
1,2-Dibromoethane	10	UL		UL	
*Chlorobenzene	10	UL		UL	
*Ethylbenzene	10	UL		UL	
Xylenes (total)	10	UL		UL	
*Styrene	10	UL		UL	
Bromoform	10	UL		UL	
Isopropylbenzene	10	UL		UL	
1,1,2,2-Tetrachloroethane	10	UL		UL	
*1,3-Dichlorobenzene	10	UL		UL	
*1,4-Dichlorobenzene	10	UL		UL	
1,2-Dichlorobenzene	10	UL		UL	
1,2-Dibromo-3-chloropropane	10	UL		UL	
1,2,4-Trichlorobenzene	10	UL		UL	

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01N8	C01P0	C01P1	C01P2	C01P3
Sampling Location :	GWU7	SWT1	Dupl. of C01P4	SWT3	SWT4
Field QC:	Field Blank	Water	Water	Water	Water
Matrix :	Water	ug/L	ug/L	ug/L	ug/L
Units :	ug/L				
Date Sampled :	06/26/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	10:30	11:10	10:15	13:10	09:40
pH :	<2	<2	<2	<2	<2
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Volatile Compound	CRQL	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UL			
Chloromethane	10	UL			
*Vinyl Chloride	10	UL			
Bromomethane	10	UL			
Chloroethane	10	UL			
Trichlorofluoromethane	10	UL	UJ	UJ	UJ
*1,1-Dichloroethene	10	UL			
1,1,2-Trichloro-1,2,2-trifluoroethane	10	UL			
Acetone	10	UL			
Carbon Disulfide	10	UL			
Methyl Acetate	10	UL			
*Methylene Chloride	10	UL			
trans-1,2-Dichloroethene	10	UL			
Methyl tert-Butyl Ether	10	UJ	UJ	UJ	UJ
1,1-Dichloroethane	10	UL			
cis-1,2-Dichloroethene	10	UL			
*2-Butanone	10	UL			
Chloroform	10	UL			
*1,1,1-Trichloroethane	10	UL			
Cyclohexane	10	UL			
*Carbon Tetrachloride	10	UL			
*Benzene	10	UL			
*1,2-Dichloroethane	10	UL			
Trichloroethene	10	UL			
Methylcyclohexane	10	UL			
*1,2-Dichloropropane	10	UL			
Bromodichloromethane	10	UL			
cis-1,3-Dichloropropene	10	UL			
4-Methyl-2-pentanone	10	UL			
*Toluene	10	UL			
trans-1,3-Dichloropropene	10	UL			
1,1,2-Trichloroethane	10	UL			
*Tetrachloroethene	10	UL			

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01N8	C01P0	C01P1	C01P2	C01P3
Sampling Location :	GWU7	SWT1	SWT2	SWT3	SWT4
Field QC:	Field Blank		Dupl. of C01P4		
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/26/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	10:30	11:10	10:15	13:10	09:40
pH :	<2	<2	<2	<2	<2
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Volatile Compound	CRQL	Result	Flag	Result	Flag
2-Hexanone	10		UL		
Dibromochloromethane	10		UL		
1,2-Dibromoethane	10		UL		
*Chlorobenzene	10		UL		
*Ethylbenzene	10		UL		
Xylenes (total)	10		UL		
*Styrene	10		UL		
Bromoform	10		UL		
Isopropylbenzene	10		UL		
1,1,2,2-Tetrachloroethane	10		UL		
*1,3-Dichlorobenzene	10		UL		
*1,4-Dichlorobenzene	10		UL		
1,2-Dichlorobenzene	10		UL		
1,2-Dibromo-3-chloropropane	10		UL		
1,2,4-Trichlorobenzene	10		UL		

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01P4	C01P5	C01P6	C01P7	C01P8
Sampling Location :	SWT5	SWT6	SWT7	SWT8	SWT9
Field QC:	Dupl. of C01P1	Field Blank	Field Blank	Trip Blank	Trip Blank
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/24/2003	06/24/2003	06/25/2003	06/24/2003	06/25/2003
Time Sampled :	10:15	09:30	09:00	10:10	09:00
pH :	<2	<2	<2	<2	<2
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Volatile Compound	CRQL	Result	Flag	Result	Flag
Dichlorodifluoromethane	10				
Chloromethane	10				
*Vinyl Chloride	10				
Bromomethane	10				
Chloroethane	10				
Trichlorofluoromethane	10				
*1,1-Dichloroethene	10				
1,1,2-Trichloro-1,2,2-trifluoroethane	10				
Acetone	10				
Carbon Disulfide	10				
Methyl Acetate	10				
*Methylene Chloride	10				
trans-1,2-Dichloroethene	10				
Methyl tert-Butyl Ether	10				
1,1-Dichloroethane	10				
cis-1,2-Dichloroethene	10				
*2-Butanone	10				
Chloroform	10				
*1,1,1-Trichloroethane	10				
Cyclohexane	10				
*Carbon Tetrachloride	10				
*Benzene	10				
*1,2-Dichloroethane	10				
Trichloroethene	10				
Methylcyclohexane	10				
*1,2-Dichloropropane	10				
Bromodichloromethane	10				
cis-1,3-Dichloropropene	10				
4-Methyl-2-pentanone	10				
*Toluene	10				
trans-1,3-Dichloropropene	10				
1,1,2-Trichloroethane	10				
*Tetrachloroethene	10				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01P0

ELKTON FARM

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01P4	C01P5	C01P6	C01P7	C01P8
Sampling Location :	SWT5	SWT6	Field Blank	SWT8	SWT9
Field QC:	Dupl. of C01P1	Water	Water	Water	Water
Matrix :	ug/L	ug/L	ug/L	ug/L	ug/L
Units :					
Date Sampled :	06/24/2003	06/24/2003	06/25/2003	06/24/2003	06/25/2003
Time Sampled :	10:15	09:30	09:00	10:10	09:00
pH :	<2	<2	<2	<2	<2
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Volatile Compound	CRQL	Result	Flag	Result	Flag
2-Hexanone	10				
Dibromochloromethane	10				
1,2-Dibromoethane	10				
*Chlorobenzene	10				
*Ethylbenzene	10				
Xylenes (total)	10				
Styrene	10				
Bromoform	10				
Isopropylbenzene	10				
1,1,2,2-Tetrachloroethane	10				
*1,3-Dichlorobenzene	10				
*1,4-Dichlorobenzene	10				
1,2-Dichlorobenzene	10				
1,2-Dibromo-3-chloropropane	10				
1,2,4-Trichlorobenzene	10				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01P9	Sampling Location :	SWU1	Field QC:	C01Q0	Matrix :	Water	Units :	ug/L	Date Sampled :	06/25/2003	Time Sampled :	11:20	pH :	<2	Dilution Factor :	1.0	C01Q2	SWU4		
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag						
Dichlorodifluoromethane	10																				
Chloromethane	10																				
*Vinyl Chloride	10																				
Bromomethane	10																				
Chloroethane	10																				
Trichlorofluoromethane	10																				
*1,1-Dichloroethene	10																				
1,1,2-Trichloro-1,2,2-trifluoroethane	10																				
Acetone	10																				
Carbon Disulfide	10																				
Methyl Acetate	10																				
*Methylene Chloride	10																				
trans-1,2-Dichloroethene	10																				
Methyl tert-Butyl Ether	10																				
1,1-Dichloroethane	10																				
cis-1,2-Dichloroethene	10																				
*2-Butanone	10																				
Chloroform	10																				
*1,1,1-Trichloroethane	10																				
Cyclohexane	10																				
*Carbon Tetrachloride	10																				
*Benzene	10																				
*1,2-Dichloroethane	10																				
Trichloroethene	10																				
Methylcyclohexane	10																				
*1,2-Dichloropropane	10																				
Bromodichloromethane	10																				
cis-1,3-Dichloropropene	10																				
4-Methyl-2-pentanone	10																				
Toluene	10																				
trans-1,3-Dichloropropene	10																				
1,1,2-Trichloroethane	10																				
*Tetrachloroethene	10																				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 18

Sample Number :	C01P9	C01Q0	C01Q2								
Sampling Location :	SWU1	SWU2	SWU4								
Field QC:											
Matrix :	Water	Water	Water								
Units :	ug/L	ug/L	ug/L								
Date Sampled :	06/25/2003	06/25/2003	06/25/2003								
Time Sampled :	11:20	10:45	10:50								
pH :	<2	<2	<2								
Dilution Factor :	1.0	1.0	1.0								
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
*Chlorobenzene	10										
*Ethylbenzene	10										
Xylenes (total)	10										
*Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
*1,3-Dichlorobenzene	10										
*1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 13

Number of Water Samples : 0

Sample Number :	C01Q7	C01Q8	C01Q9	C01R0	C01R1
Sampling Location :	SEDT1	SEDT2	SEDT3	SEDT4	SEDT5
Field QC:		Dupl. of C01R1			Dupl. of C01Q8
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	11:10	10:15	13:15	09:40	10:15
%Moisture :	23	21	23	24	21
Dilution Factor :	1.00	0.98	0.98	0.94	0.96
Volatile Compound	CRQL	Result	Flag	Result	Flag
Dichlorodifluoromethane	10				
Chloromethane	10				
Vinyl Chloride	10				
Bromomethane	10				
Chloroethane	10				
Trichlorofluoromethane	10				
1,1-Dichloroethene	10				
1,1,2-Trichloro-1,2,2-trifluoroethane	10				
Acetone	10			9 J	
Carbon Disulfide	10				
Methyl Acetate	10				
Methylene Chloride	10	3	B	4 B	
trans-1,2-Dichloroethene	10			4 B	
Methyl tert-Butyl Ether	10			4 B	
1,1-Dichloroethane	10				
cis-1,2-Dichloroethene	10				
2-Butanone	10				
Chloroform	10				
1,1,1-Trichloroethane	10				
Cyclohexane	10				
Carbon Tetrachloride	10				
Benzene	10				
1,2-Dichloroethane	10				
Trichloroethene	10				
Methylcyclohexane	10				
1,2-Dichloropropane	10				
Bromodichloromethane	10				
cis-1,3-Dichloropropene	10				
4-Methyl-2-pentanone	10				
Toluene	10				
trans-1,3-Dichloropropene	10				
1,1,2-Trichloroethane	10				
Tetrachloroethene	10				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01Q7

ELKTON FARM

Number of Soil Samples : 13

Number of Water Samples : 0

Sample Number :	C01Q7	C01Q8	C01Q9	C01R0	C01R1
Sampling Location :	SEDT1	SEDT2	SEDT3	SEDT4	SEDT5
Field QC:		Dupl. of C01R1			Dupl. of C01Q8
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	11:10	10:15	13:15	09:40	10:15
%Moisture :	23	21	23	24	21
Dilution Factor :	1.00	0.98	0.98	0.94	0.96
Volatile Compound	CRQL	Result	Flag	Result	Flag
2-Hexanone	10				
Dibromochloromethane	10				
1,2-Dibromoethane	10				
Chlorobenzene	10				
Ethylbenzene	10				
Xylenes (total)	10				
Styrene	10				
Bromoform	10				
Isopropylbenzene	10				
1,1,2,2-Tetrachloroethane	10				
1,3-Dichlorobenzene	10				
1,4-Dichlorobenzene	10				
1,2-Dichlorobenzene	10				
1,2-Dibromo-3-chloropropane	10				
1,2,4-Trichlorobenzene	10				

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 13

Number of Water Samples : 0

Sample Number :	C01R3	C01R4	C01R8	C01R9	C01S0						
Sampling Location :	SST10	SST11	Dupl. of C01S2	SST2	SST3						
Field QC:	Soil	Soil	Soil	Soil	Soil						
Matrix :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg						
Units :											
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	12:26	13:47	11:40	09:44	10:13						
%Moisture :	16	14	15	22	16						
Dilution Factor :	0.93	0.86	0.91	2.27	0.96						
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10	51	J	22	J	22	J	33	J	19	J
Carbon Disulfide	10	2	J							4	J
Methyl Acetate	10										
Methylene Chloride	10	5	B	3	B	3	B	9	B	3	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10	11	J								
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 13

Number of Water Samples : 0

Sample Number :	C01R3	C01R4	C01R8	C01R9	C01S0						
Sampling Location :	SST10	SST11	SST15	SST2	SST3						
Field QC:			Dupl. of C01S2								
Matrix :	Soil	Soil	Soil	Soil	Soil						
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg						
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	12:26	13:47	11:40	09:44	10:13						
%Moisture :	16	14	15	22	16						
Dilution Factor :	0.93	0.86	0.91	2.27	0.96						
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM
SWOK

Number of Soil Samples : 13

Number of Water Samples : 0

Sample Number :	C01S1	C01S2	C01S6		
Sampling Location :	SST4	SST5	SST9		
Field QC:		Dupl. of C01R8			
Matrix :	Soil	Soil	Soil		
Units :	ug/Kg	ug/Kg	ug/Kg		
Date Sampled :	06/24/2003	06/24/2003	06/24/2003		
Time Sampled :	10:52	11:40	14:20		
%Moisture :	7	15	14		
Dilution Factor :	0.81	0.91	0.93		
Volatile Compound	CRQL	Result	Flag	Result	Flag
Dichlorodifluoromethane	10				
Chloromethane	10				
Vinyl Chloride	10			5	J
Bromomethane	10				
Chloroethane	10				
Trichlorofluoromethane	10				
1,1-Dichloroethene	10				
1,1,2-Trichloro-1,2,2-trifluoroethane	10				
Acetone	10	20		40	
Carbon Disulfide	10				3
Methyl Acetate	10			10	J
Methylene Chloride	10	2	B	3	B
trans-1,2-Dichloroethene	10			3	
Methyl tert-Butyl Ether	10				
1,1-Dichloroethane	10				
cis-1,2-Dichloroethene	10				
2-Butanone	10			3	J
Chloroform	10				
1,1,1-Trichloroethane	10				
Cyclohexane	10				
Carbon Tetrachloride	10				
Benzene	10			1	J
1,2-Dichloroethane	10				
Trichloroethene	10			4	J
Methylcyclohexane	10				
1,2-Dichloropropane	10				
Bromodichloromethane	10				
cis-1,3-Dichloropropene	10				
4-Methyl-2-pentanone	10				
Toluene	10			1	J
trans-1,3-Dichloropropene	10				
1,1,2-Trichloroethane	10				
Tetrachloroethene	10				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 13

Number of Water Samples : 0

Sample Number :	C01S1	C01S2	C01S6								
Sampling Location :	SST4	SST5	SST9								
Field QC:		Dupl. of C01R8									
Matrix :	Soil	Soil	Soil								
Units :	ug/Kg	ug/Kg	ug/Kg								
Date Sampled :	06/24/2003	06/24/2003	06/24/2003								
Time Sampled :	10:52	11:40	14:20								
%Moisture :	7	15	14								
Dilution Factor :	0.81	0.91	0.93								
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

SDG : C01W1
ELKTON FARM

Lab. : SWOK

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :		C01R2 SST1	C01R5 SST12	C01R6 SST13	C01R7 SST14	C01S3 SST6					
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10	32	J	38	J	23	J	29	J	29	J
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	15		14		14		12	B	14	
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10										
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :	C01R2 SST1	C01R5 SST12	C01R6 SST13	C01R7 SST14	C01S3 SST6						
Matrix :	Soil	Soil	Soil	Soil	Soil						
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg						
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003						
Time Sampled :	13:10	09:40	10:10	11:10	11:32						
%Moisture :	9	13	10	17	9						
Dilution Factor :	0.86	0.94	0.86	0.83	0.96						
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01W1

ELKTON FARM

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :	C01S4 SST7	C01S5 SST8	C01S7 ST1	C01X7 SEDU1	C01X8 SEDU2 DupL. of C01Y0						
Sampling Location :	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg						
Field QC:	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003						
Matrix :	11:57	10:40	13:05	11:25	10:55						
Units :	18	9	14	25	23						
Date Sampled :											
Time Sampled :											
%Moisture :											
Dilution Factor :	0.82	0.94	0.93	0.98	0.98						
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10	20	J	33	J	110	J	7	J	6	J
Carbon Disulfide	10	1	J								
Methyl Acetate	10										
Methylene Chloride	10	15	B	23	B	14	B	21	B	19	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10			4	J	16	J				
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :	C01S4	C01S5	C01S7	C01X7	C01X8
Sampling Location :	SST7	SST8	ST1	SEDU1	SEDU2
Field QC:					DupL. of C01Y0
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	11:57	10:40	13:05	11:25	10:55
%Moisture :	18	9	14	25	23
Dilution Factor :	0.82	0.94	0.93	0.98	0.98
Volatile Compound	CRQL	Result	Flag	Result	Flag
2-Hexanone	10				
Dibromochloromethane	10				
1,2-Dibromoethane	10				
Chlorobenzene	10				
Ethylbenzene	10				
Xylenes (total)	10				
Styrene	10				
Bromoform	10				
Isopropylbenzene	10				
1,1,2,2-Tetrachloroethane	10				
1,3-Dichlorobenzene	10				
1,4-Dichlorobenzene	10				
1,2-Dichlorobenzene	10				
1,2-Dibromo-3-chloropropane	10				
1,2,4-Trichlorobenzene	10				

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :	C01Y0										
Sampling Location :	SEDU4										
Field QC:	Dupl. of C01X8										
Matrix :	Soil										
Units :	ug/Kg										
Date Sampled :	06/25/2003										
Time Sampled :	11:00										
%Moisture :	20										
Dilution Factor :	0.98										
Volatile Compound	CRQL	Result	Flag								
Dichlorodifluoromethane	10										
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10	6	J								
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	17	B								
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10										
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: VOLATILES

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 11

Number of Water Samples : 0

Sample Number :	C01Y0										
Sampling Location :	SEDU4										
Field QC:	Dupl. of C01X8										
Matrix :	Soil										
Units :	ug/Kg										
Date Sampled :	06/25/2003										
Time Sampled :	11:00										
%Moisture :	20										
Dilution Factor :	0.98										
Volatile Compound	CRQL	Result	Flag								
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10										
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01N1	C01N2	C01N3	C01N4	C01N8						
Sampling Location :	GWD1	GWU1	GWU2	GWU3	GWU7						
Field QC:	Water	Water	Water	Water	Field Blank						
Matrix :	ug/L	ug/L	ug/L	ug/L	Water						
Units :					ug/L						
Date Sampled :	06/26/2003	06/26/2003	06/26/2003	06/26/2003	06/26/2003						
Time Sampled :	12:45	10:35	10:00	11:10	10:30						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10										
Phenol	10										
bis-(2-Chloroethyl) ether	10										
2-Chlorophenol	10										
2-Methylphenol	10										
2,2'-oxybis(1-Chloropropane)	10										
Acetophenone	10										
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	10										
Hexachloroethane	10										
Nitrobenzene	10										
Isophorone	10										
2-Nitrophenol	10										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	10										
2,4-Dichlorophenol	10										
Naphthalene	10										
4-Chloroaniline	10										
Hexachlorobutadiene	10										
Caprolactam	10	0.7	J								
4-Chloro-3-methylphenol	10										
2-Methylnaphthalene	10										
Hexachlorocyclopentadiene	10										
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	25										
1,1'-Biphenyl	10										
2-Chloronaphthalene	10										
2-Nitroaniline	25										
Dimethylphthalate	10										
2,6-Dinitrotoluene	10										
Acenaphthylene	10										
3-Nitroaniline	25										

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01N1 GWD1	C01N2 GWU1	C01N3 GWU2	C01N4 GWU3	C01N8 GWU7 Field Blank						
Sampling Location :	Water ug/L 06/26/2003	Water ug/L 06/26/2003	Water ug/L 06/26/2003	Water ug/L 06/26/2003	Water ug/L 06/26/2003						
Field QC:											
Matrix :											
Units :											
Date Sampled :											
Time Sampled :	12:45	10:35	10:00	11:10	10:30						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	10										
2,4-Dinitrophenol	25										
4-Nitrophenol	25										
Dibenzofuran	10										
2,4-Dinitrotoluene	10										
Diethylphthalate	10										
Fluorene	10										
4-Chlorophenyl-phenyl ether	10										
4-Nitroaniline	25										
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	10										
4-Bromophenyl-phenylether	10										
*Hexachlorobenzene	10										
Atrazine	10										
*Pentachlorophenol	25										
Phenanthrene	10										
Anthracene	10										
Carbazole	10										
Di-n-butylphthalate	10	0.6	B			0.7	B			0.7	B
Fluoranthene	10										
Pyrene	10										
Butylbenzylphthalate	10										
3,3'-Dichlorobenzidine	10										
Benzo(a)anthracene	10										
Chrysene	10										
bis(2-Ethylhexyl)phthalate	10			50		4	B	4	B	2	B
Di-n-octylphthalate	10										
Benzo(b)fluoranthene	10										
Benzo(k)fluoranthene	10										
Benzo(a)pyrene	10										
Indeno(1,2,3-cd)pyrene	10										
Dibenzo(a,h)anthracene	10										
Benzo(g,h,i)perylene	10										

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01P0	C01P1	C01P2	C01P3	C01P4						
Sampling Location :	SWT1	SWT2	SWT3	SWT4	SWT5						
Field QC:		Dupl. of C01P4			Dupl. of C01P1						
Matrix :	Water	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L	ug/L						
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	11:10	10:15	13:10	09:40	10:15						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10										
Phenol	10										
bis-(2-Chloroethyl) ether	10										
2-Chlorophenol	10										
2-Methylphenol	10										
2,2'-oxybis(1-Chloropropane)	10										
Acetophenone	10										
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	10										
Hexachloroethane	10										
Nitrobenzene	10										
Isophorone	10										
2-Nitrophenol	10										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	10										
2,4-Dichlorophenol	10										
Naphthalene	10										
4-Chloroaniline	10										
Hexachlorobutadiene	10										
Caprolactam	10			0.8	J			0.7	J		
4-Chloro-3-methylphenol	10										
2-Methylnaphthalene	10										
Hexachlorocyclopentadiene	10										
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	25										
1,1-Biphenyl	10										
2-Chloronaphthalene	10										
2-Nitroaniline	25										
Dimethylphthalate	10										
2,6-Dinitrotoluene	10										
Acenaphthylene	10										
3-Nitroaniline	25										

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01P0

ELKTON FARM

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01P0	C01P1	C01P2	C01P3	C01P4
Sampling Location :	SWT1	SWT2	SWT3	SWT4	SWT5
Field QC:	Dupl. of C01P4				Dupl. of C01P1
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	11:10	10:15	13:10	09:40	10:15
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	10				
2,4-Dinitrophenol	25				
4-Nitrophenol	25				
Dibenzofuran	10				
2,4-Dinitrotoluene	10				
Diethylphthalate	10	0.6	B	2	B
Fluorene	10				
4-Chlorophenyl-phenyl ether	10				
4-Nitroaniline	25				
4,6-Dinitro-2-methylphenol	25				
N-Nitrosodiphenylamine	10				
4-Bromophenyl-phenylether	10				
*Hexachlorobenzene	10				
Atrazine	10				
*Pentachlorophenol	25				
Phenanthrene	10				
Anthracene	10				
Carbazole	10				
Di-n-butylphthalate	10	0.8	B	0.6	B
Fluoranthene	10				
Pyrene	10				
Butylbenzylphthalate	10				
3,3'-Dichlorobenzidine	10				
Benzo(a)anthracene	10				
Chrysene	10				
bis(2-Ethylhexyl)phthalate	10	1	B	0.9	B
Di-n-octylphthalate	10				
Benzo(b)fluoranthene	10				
Benzo(k)fluoranthene	10				
Benzo(a)pyrene	10				
Indeno(1,2,3-cd)pyrene	10				
Dibenzo(a,h)anthracene	10				
Benzo(g,h,i)perylene	10				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01P5	C01P6	C01P9	C01Q0	C01Q2
Sampling Location :	SWT6	SWT7	SWU1	SWU2	SWU4
Field QC:	Field Blank	Field Blank			
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/24/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	09:30	09:00	11:20	10:45	10:50
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	10				
Phenol	10				
bis-(2-Chloroethyl) ether	10				
2-Chlorophenol	10				
2-Methylphenol	10				
2,2'-oxybis(1-Chloropropane)	10				
Acetophenone	10				
4-Methylphenol	10				
N-Nitroso-di-n-propylamine	10				
Hexachloroethane	10				
Nitrobenzene	10				
Isophorone	10				
2-Nitrophenol	10				
2,4-Dimethylphenol	10				
bis(2-Chloroethoxy)methane	10				
2,4-Dichlorophenol	10				
Naphthalene	10				
4-Chloroaniline	10				
Hexachlorobutadiene	10				
Caprolactam	10				
4-Chloro-3-methylphenol	10				
2-Methylnaphthalene	10				
Hexachlorocyclopentadiene	10				
2,4,6-Trichlorophenol	10				
2,4,5-Trichlorophenol	25				
1,1'-Biphenyl	10				
2-Chloronaphthalene	10				
2-Nitroaniline	25				
Dimethylphthalate	10				
2,6-Dinitrotoluene	10				
Acenaphthylene	10				
3-Nitroaniline	25				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01P5	C01P6	C01P9	C01Q0	C01Q2
Sampling Location :	SWT6	SWT7	SWU1	SWU2	SWU4
Field QC:	Field Blank	Field Blank			
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/24/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	09:30	09:00	11:20	10:45	10:50
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	10				
2,4-Dinitrophenol	25				
4-Nitrophenol	25				
Dibenzofuran	10				
2,4-Dinitrotoluene	10				
Diethylphthalate	10	1	J	2	J
Fluorene	10				
4-Chlorophenyl-phenyl ether	10				
4-Nitroaniline	25				
4,6-Dinitro-2-methylphenol	25				
N-Nitrosodiphenylamine	10				
4-Bromophenyl-phenylether	10				
*Hexachlorobenzene	10				
Atrazine	10				
*Pentachlorophenol	25				
Phenanthrene	10				
Anthracene	10				
Carbazole	10				
Di-n-butylphthalate	10	1	J	0.9	J
Fluoranthene	10				
Pyrene	10				
Butylbenzylphthalate	10				
3,3'-Dichlorobenzidine	10				
Benzo(a)anthracene	10				
Chrysene	10				
bis(2-Ethylhexyl)phthalate	10	0.7	B	1	B
Di-n-octylphthalate	10				
Benzo(b)fluoranthene	10				
Benzo(k)fluoranthene	10				
Benzo(a)pyrene	10				
Indeno(1,2,3-cd)pyrene	10				
Dibenzo(a,h)anthracene	10				
Benzo(g,h,i)perylene	10				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

SDG : C01Q7
ELKTON FARM

Lab. : SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01Q7	C01Q8	C01Q9	C01R0	C01R1						
Sampling Location :	SEDT1	SEDT2	SEDT3	SEDT4	SEDT5						
Field QC:	Dupl. of C01R1										
Matrix :	Soil	Soil	Soil	Soil	Soil						
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg						
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	11:10	10:15	13:15	09:40	10:15						
%Moisture :	23	21	23	24	21						
Dilution Factor :	1.00	0.99	0.99	0.99	0.99						
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :
Lab. :

SDG : C01Q7

ELKTON FARM
SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01Q7	C01Q8	C01Q9	C01R0	C01R1
Sampling Location :	SEDT1	SEDT2	SEDT3	SEDT4	SEDT5
Field QC:		Dupl. of C01R1			Dupl. of C01Q8
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	11:10	10:15	13:15	09:40	10:15
%Moisture :	23	21	23	24	21
Dilution Factor :	1.00	0.99	0.99	0.99	0.99
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	330				
2,4-Dinitrophenol	830				
4-Nitrophenol	830				
Dibenzofuran	330				
2,4-Dinitrotoluene	330				
Diethylphthalate	330				
Fluorene	330				
4-Chlorophenyl-phenyl ether	330				
4-Nitroaniline	830				
4,6-Dinitro-2-methylphenol	830				
N-Nitrosodiphenylamine	330				
4-Bromophenyl-phenylether	330				
Hexachlorobenzene	330				
Atrazine	330				
Pentachlorophenol	830				
Phenanthrene	330			37	J
Anthracene	330				
Carbazole	330				
Di-n-butylphthalate	330	29	B	37	B
Fluoranthene	330			65	J
Pyrene	330			41	J
Butylbenzylphthalate	330				
3,3'-Dichlorobenzidine	330				
Benzo(a)anthracene	330			32	J
Chrysene	330			31	J
bis(2-Ethylhexyl)phthalate	330	36	B	33	B
Di-n-octylphthalate	330			41	B
Benzo(b)fluoranthene	330				
Benzo(k)fluoranthene	330				
Benzo(a)pyrene	330			23	J
Indeno(1,2,3-cd)pyrene	330				
Dibenzo(a,h)anthracene	330				
Benzo(g,h,i)perylene	330				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01R3	C01R4	C01R8	C01R9	C01S0
Sampling Location :	SST10	SST11	SST15	SST2	SST3
Field QC:		Dupl. of C01S2			
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	12:26	13:47	11:40	09:44	10:13
%Moisture :	16	14	15	22	16
Dilution Factor :	1.00	0.99	1.00	1.00	0.99
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	330				
Phenol	330				
bis-(2-Chloroethyl) ether	330				
2-Chlorophenol	330				
2-Methylphenol	330				
2,2'-oxybis(1-Chloropropane)	330				
Acetophenone	330				
4-Methylphenol	330				
N-Nitroso-di-n-propylamine	330				
Hexachloroethane	330				
Nitrobenzene	330				
Isophorone	330				
2-Nitrophenol	330				
2,4-Dimethylphenol	330				
bis(2-Chloroethoxy)methane	330				
2,4-Dichlorophenol	330				
Naphthalene	330				
4-Chloroaniline	330				
Hexachlorobutadiene	330				
Caprolactam	330				
4-Chloro-3-methylphenol	330				
2-Methylnaphthalene	330				
Hexachlorocyclopentadiene	330				
2,4,6-Trichlorophenol	330				
2,4,5-Trichlorophenol	830				
1,1-Biphenyl	330				
2-Chloronaphthalene	330				
2-Nitroaniline	830				
Dimethylphthalate	330				
2,6-Dinitrotoluene	330				
Acenaphthylene	330				
3-Nitroaniline	830				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01Q7

ELKTON FARM

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01R3 SST10	C01R4 SST11	C01R8 SST15 Dupl. of C01S2	C01R9 SST2	C01S0 SST3						
Sampling Location :	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg						
Field QC:											
Matrix :											
Units :											
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	12:26	13:47	11:40	09:44	10:13						
%Moisture :	16	14	15	22	16						
Dilution Factor :	1.00	0.99	1.00	1.00	0.99						
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330										
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330	29	B	21	B			21	B	21	B
Fluoranthene	330										
Pyrene	330										
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330	2400	J	210	B	240	B	3300	J	1600	J
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01S1	C01S2	C01S6	C01S8	C01S9
Sampling Location :	SST4	SST5 Dupl. of C01R8	SST9	ST10	ST11
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	10:52	11:40	14:20	12:09	13:42
%Moisture :	7	15	14	15	20
Dilution Factor :	0.99	0.98	0.99	1.00	1.00
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	330				
Phenol	330	65	J		
bis-(2-Chloroethyl) ether	330				
2-Chlorophenol	330				
2-Methylphenol	330				
2,2'-oxybis(1-Chloropropane)	330				
Acetophenone	330				
4-Methylphenol	330				
N-Nitroso-di-n-propylamine	330				
Hexachloroethane	330				
Nitrobenzene	330				
Isophorone	330				
2-Nitrophenol	330				
2,4-Dimethylphenol	330				
bis(2-Chloroethoxy)methane	330				
2,4-Dichlorophenol	330				
Naphthalene	330				
4-Chloroaniline	330				
Hexachlorobutadiene	330				
Caprolactam	330				
4-Chloro-3-methylphenol	330				
2-Methylnaphthalene	330				
Hexachlorocyclopentadiene	330				
2,4,6-Trichlorophenol	330				
2,4,5-Trichlorophenol	830				
1,1-Biphenyl	330				
2-Chloronaphthalene	330				
2-Nitroaniline	830				
Dimethylphthalate	330				
2,6-Dinitrotoluene	330				
Acenaphthylene	330				
3-Nitroaniline	830				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :
Lab. :

SDG : C01Q7

ELKTON FARM
SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01S1	C01S2	C01S6	C01S8	C01S9
Sampling Location :	SST4	SST5 Dupl. of C01R8	SST9	ST10	ST11
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	10:52	11:40	14:20	12:09	13:42
%Moisture :	7	15	14	15	20
Dilution Factor :	0.99	0.98	0.99	1.00	1.00
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	330				
2,4-Dinitrophenol	830				
4-Nitrophenol	830				
Dibenzofuran	330				
2,4-Dinitrotoluene	330				
Diethylphthalate	330				
Fluorene	330				
4-Chlorophenyl-phenyl ether	330				
4-Nitroaniline	830				
4,6-Dinitro-2-methylphenol	830				
N-Nitrosodiphenylamine	330				
4-Bromophenyl-phenylether	330				
Hexachlorobenzene	330				
Atrazine	330				
Pentachlorophenol	830				
Phenanthere	330				
Anthracene	330				
Carbazole	330				
Di-n-butylphthalate	330	21	B	22	B
Fluoranthene	330				
Pyrene	330				
Butylbenzylphthalate	330				
3,3'-Dichlorobenzidine	330				
Benzo(a)anthracene	330				
Chrysene	330				
bis(2-Ethylhexyl)phthalate	330	580	J	370	J
Di-n-octylphthalate	330				
Benzo(b)fluoranthene	330				
Benzo(k)fluoranthene	330				
Benzo(a)pyrene	330				
Indeno(1,2,3-cd)pyrene	330				
Dibenzo(a,h)anthracene	330				
Benzo(g,h,i)perylene	330				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01Q7

ELKTON FARM

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01T3 ST15 Dupl. of C01T7	C01T4 ST2	C01T5 ST3	C01T6 ST4	C01T7 ST5 Dupl. of C01T3						
Sampling Location :	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg						
Field QC:	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Matrix :											
Units :											
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	11:28	09:33	10:05	10:45	11:28						
%Moisture :	18	13	17	20	17						
Dilution Factor :	0.99	0.98	0.99	0.98	1.00						
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330			1000		520		73	J		
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330			58	J						
Acenaphthylene	330										
3-Nitroaniline	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01T3	C01T4	C01T5	C01T6	C01T7	
Sampling Location :	ST15	ST2	ST3	ST4	ST5	
Field QC:	Dupl. of C01T7				Dupl. of C01T3	
Matrix :	Soil	Soil	Soil	Soil	Soil	
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003	
Time Sampled :	11:28	09:33	10:05	10:45	11:28	
%Moisture :	18	13	17	20	17	
Dilution Factor :	0.99	0.98	0.99	0.98	1.00	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	
Acenaphthene	330					
2,4-Dinitrophenol	830					
4-Nitrophenol	830					
Dibenzofuran	330					
2,4-Dinitrotoluene	330			42	J	
Diethylphthalate	330					
Fluorene	330					
4-Chlorophenyl-phenyl ether	330					
4-Nitroaniline	830					
4,6-Dinitro-2-methylphenol	830					
N-Nitrosodiphenylamine	330	33	J			
4-Bromophenyl-phenylether	330					
Hexachlorobenzene	330					
Atrazine	330					
Pentachlorophenol	830					
Phenanthrene	330					
Anthracene	330					
Carbazole	330					
Di-n-butylphthalate	330			22	B	
Fluoranthene	330			21	B	
Pyrene	330				30	B
Butylbenzylphthalate	330					
3,3'-Dichlorobenzidine	330					
Benzo(a)anthracene	330					
Chrysene	330					
bis(2-Ethylhexyl)phthalate	330	200	B	220	B	
Di-n-octylphthalate	330					
Benzo(b)fluoranthene	330					
Benzo(k)fluoranthene	330					
Benzo(a)pyrene	330					
Indeno(1,2,3-cd)pyrene	330					
Dibenzo(a,h)anthracene	330					
Benzo(g,h,i)perylene	330					

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01R2	C01R5	C01R6	C01R7	C01S3
Sampling Location :	SST1	SST12	SST13	SST14	SST6
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	13:10	09:40	10:10	11:10	11:32
%Moisture :	9	13	10	17	9
Dilution Factor :	0.99	1.00	0.99	0.98	0.98
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	330				UJ
Phenol	330				
bis-(2-Chloroethyl) ether	330				
2-Chlorophenol	330				
2-Methylphenol	330				
2,2'-oxybis(1-Chloropropane)	330				
Acetophenone	330				
4-Methylphenol	330				
N-Nitroso-di-n-propylamine	330				
Hexachloroethane	330				
Nitrobenzene	330				
Isophorone	330				
2-Nitrophenol	330				
2,4-Dimethylphenol	330				
bis(2-Chloroethoxy)methane	330				
2,4-Dichlorophenol	330				
Naphthalene	330				
4-Chloroaniline	330				
Hexachlorobutadiene	330				
Caprolactam	330				
4-Chloro-3-methylphenol	330				
2-Methylnaphthalene	330				
Hexachlorocyclopentadiene	330				
2,4,6-Trichlorophenol	330				
2,4,5-Trichlorophenol	830				
1,1'-Biphenyl	330				
2-Chloronaphthalene	330				
2-Nitroaniline	830				
Dimethylphthalate	330				
2,6-Dinitrotoluene	330				
Acenaphthylene	330				
3-Nitroaniline	830				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01W1

ELKTON FARM

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01R2	C01R5	C01R6	C01R7	C01S3
Sampling Location :	SST1	SST12	SST13	SST14	SST6
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	13:10	09:40	10:10	11:10	11:32
%Moisture :	9	13	10	17	9
Dilution Factor :	0.99	1.00	0.99	0.98	0.98
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	330				
2,4-Dinitrophenol	830				
4-Nitrophenol	830				
Dibenzofuran	330				
2,4-Dinitrotoluene	330				
Diethylphthalate	330				
Fluorene	330				
4-Chlorophenyl-phenyl ether	330				
4-Nitroaniline	830				
4,6-Dinitro-2-methylphenol	830				
N-Nitrosodiphenylamine	330				
4-Bromophenyl-phenylether	330				
Hexachlorobenzene	330				
Atrazine	330				
Pentachlorophenol	830				
Phenanthrene	330				
Anthracene	330				
Carbazole	330				
Di-n-butylphthalate	330	25	B	21	B
Fluoranthene	330				
Pyrene	330				
Butylbenzylphthalate	330				
3,3'-Dichlorobenzidine	330				
Benzo(a)anthracene	330				
Chrysene	330				
bis(2-Ethylhexyl)phthalate	330	240	B	240	B
Di-n-octylphthalate	330				
Benzo(b)fluoranthene	330				
Benzo(k)fluoranthene	330				
Benzo(a)pyrene	330				
Indeno(1,2,3-cd)pyrene	330				
Dibenzo(a,h)anthracene	330				
Benzo(g,h,i)perylene	330				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01S4	C01S5	C01S7	C01T0	C01T1
Sampling Location :	SST7	SST8	ST1	ST12	ST13
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	11:57	10:40	13:05	09:35	10:05
%Moisture :	18	9	14	20	19
Dilution Factor :	0.99	1.00	1.00	1.00	0.98
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	330			UJ	
Phenol	330				30 J
bis-(2-Chloroethyl) ether	330				
2-Chlorophenol	330				
2-Methylphenol	330				
2,2'-oxybis(1-Chloropropane)	330				
Acetophenone	330				
4-Methylphenol	330				
N-Nitroso-di-n-propylamine	330				
Hexachloroethane	330				
Nitrobenzene	330				
Isophorone	330				
2-Nitrophenol	330				
2,4-Dimethylphenol	330				
bis(2-Chloroethoxy)methane	330				
2,4-Dichlorophenol	330				
Naphthalene	330				
4-Chloroaniline	330	27	J		30 J
Hexachlorobutadiene	330				
Caprolactam	330				
4-Chloro-3-methylphenol	330				
2-Methylnaphthalene	330				
Hexachlorocyclopentadiene	330				
2,4,6-Trichlorophenol	330				
2,4,5-Trichlorophenol	830				
1,1'-Biphenyl	330				
2-Chloronaphthalene	330				
2-Nitroaniline	830				
Dimethylphthalate	330				
2,6-Dinitrotoluene	330				
Acenaphthylene	330				
3-Nitroaniline	830				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01W1

ELKTON FARM

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01S4 SST7	C01S5 SST8	C01S7 ST1	C01T0 ST12	C01T1 ST13
Sampling Location :					
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	11:57	10:40	13:05	09:35	10:05
%Moisture :	18	9	14	20	19
Dilution Factor :	0.99	1.00	1.00	1.00	0.98
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	330				
2,4-Dinitrophenol	830				
4-Nitrophenol	830				
Dibenzofuran	330				
2,4-Dinitrotoluene	330				
Diethylphthalate	330				
Fluorene	330				
4-Chlorophenyl-phenyl ether	330				
4-Nitroaniline	830				
4,6-Dinitro-2-methylphenol	830				
N-Nitrosodiphenylamine	330				
4-Bromophenyl-phenylether	330				
Hexachlorobenzene	330				
Atrazine	330				
Pentachlorophenol	830				
Phenanthrene	330				
Anthracene	330				
Carbazole	330				
Di-n-butylphthalate	330			26	UJ
Fluoranthene	330			42	B
Pyrene	330			29	B
Butylbenzylphthalate	330			48	B
3,3'-Dichlorobenzidine	330				
Benzo(a)anthracene	330				
Chrysene	330				
bis(2-Ethylhexyl)phthalate	330	790		240	B
Di-n-octylphthalate	330			95	B
Benzo(b)fluoranthene	330			2800	
Benzo(k)fluoranthene	330			290	B
Benzo(a)pyrene	330				
Indeno(1,2,3-cd)pyrene	330				
Dibenzo(a,h)anthracene	330				
Benzo(g,h,i)perylene	330				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01T2	C01T8	C01T9	C01W0	C01W1
Sampling Location :	ST14	ST6	ST7	ST8	ST9
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/24/2003
Time Sampled :	11:05	11:27	11:52	10:35	14:15
%Moisture :	18	17	20	18	18
Dilution Factor :	0.98	1.00	0.98	1.00	1.00
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	330				
Phenol	330				
bis-(2-Chloroethyl) ether	330				
2-Chlorophenol	330				
2-Methylphenol	330				
2,2'-oxybis(1-Chloropropane)	330				
Acetophenone	330				
4-Methylphenol	330				
N-Nitroso-di-n-propylamine	330				
Hexachloroethane	330				
Nitrobenzene	330				
Isophorone	330				
2-Nitrophenol	330				
2,4-Dimethylphenol	330				
bis(2-Chloroethoxy)methane	330				
2,4-Dichlorophenol	330				
Naphthalene	330				
4-Chloroaniline	330				
Hexachlorobutadiene	330				
Caprolactam	330	37	J		
4-Chloro-3-methylphenol	330				
2-Methylnaphthalene	330				
Hexachlorocyclopentadiene	330				
2,4,6-Trichlorophenol	330				
2,4,5-Trichlorophenol	830				
1,1'-Biphenyl	330				
2-Chloronaphthalene	330				
2-Nitroaniline	830				
Dimethylphthalate	330				
2,6-Dinitrotoluene	330				
Acenaphthylene	330				
3-Nitroaniline	830				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01T2	C01T8	C01T9	C01W0	C01W1
Sampling Location :	ST14	ST6	ST7	ST8	ST9
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/24/2003
Time Sampled :	11:05	11:27	11:52	10:35	14:15
%Moisture :	18	17	20	18	18
Dilution Factor :	0.98	1.00	0.98	1.00	1.00
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Acenaphthene	330				
2,4-Dinitrophenol	830				
4-Nitrophenol	830				
Dibenzofuran	330				
2,4-Dinitrotoluene	330				
Diethylphthalate	330				
Fluorene	330				
4-Chlorophenyl-phenyl ether	330				
4-Nitroaniline	830				
4,6-Dinitro-2-methylphenol	830				
N-Nitrosodiphenylamine	330				
4-Bromophenyl-phenylether	330				
Hexamchlorobenzene	330				
Atrazine	330				
Pentachlorophenol	830				
Phenanthrene	330				
Anthracene	330				
Carbazole	330				
Di-n-butylphthalate	330	38	B	23	B
Fluoranthene	330				
Pyrene	330				
Butylbenzylphthalate	330				
3,3'-Dichlorobenzidine	330				
Benzo(a)anthracene	330				
Chrysene	330				
bis(2-Ethylhexyl)phthalate	330	95	B	50	B
Di-n-octylphthalate	330				
Benzo(b)fluoranthene	330				
Benzo(k)fluoranthene	330				
Benzo(a)pyrene	330				
Indeno(1,2,3-cd)pyrene	330				
Dibenzo(a,h)anthracene	330				
Benzo(g,h,i)perylene	330				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01X7	C01X8	C01Y0		
Sampling Location :	SEDU1	SEDU2	SEDU4		
Field QC:		Dupl. of C01Y0	Dupl. of C01X8		
Matrix :	Soil	Soil	Soil		
Units :	ug/Kg	ug/Kg	ug/Kg		
Date Sampled :	06/25/2003	06/25/2003	06/25/2003		
Time Sampled :	11:25	10:55	11:00		
%Moisture :	25	23	20		
Dilution Factor :	0.99	0.97	0.99		
Semivolatile Compound	CRQL	Result	Flag	Result	Flag
Benzaldehyde	330				
Phenol	330				
bis-(2-Chloroethyl) ether	330				
2-Chlorophenol	330				
2-Methylphenol	330				
2,2'-oxybis(1-Chloropropane)	330				
Acetophenone	330				
4-Methylphenol	330				
N-Nitroso-di-n-propylamine	330				
Hexachloroethane	330				
Nitrobenzene	330				
Isophorone	330				
2-Nitrophenol	330				
2,4-Dimethylphenol	330				
bis(2-Chloroethoxy)methane	330				
2,4-Dichlorophenol	330				
Naphthalene	330				
4-Chloroaniline	330				
Hexachlorobutadiene	330				
Caprolactam	330	28	J		
4-Chloro-3-methylphenol	330				
2-Methylnaphthalene	330				
Hexachlorocyclopentadiene	330				
2,4,6-Trichlorophenol	330				
2,4,5-Trichlorophenol	830				
1,1'-Biphenyl	330				
2-Chloronaphthalene	330				
2-Nitroaniline	830				
Dimethylphthalate	330				
2,6-Dinitrotoluene	330				
Acenaphthylene	330				
3-Nitroaniline	830				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

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Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :		C01X7	SEDU1	C01X8	SEDU2	Dupl. of C01Y0	SEDU4	Dupl. of C01X8			
Sampling Location :											
Field QC:											
Matrix :		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :		06/25/2003		06/25/2003		06/25/2003		06/25/2003			
Time Sampled :		11:25		10:55		11:00					
%Moisture :		25		23		20					
Dilution Factor :		0.99		0.97		0.99					
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330										
Pentachlorophenol	830										
Phenanthrene	330	23	J								
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330	74	B	28	B	36	B				
Fluoranthene	330	27	J								
Pyrene	330	42	J								
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330	87	B	55	B	74	B				
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: PESTICIDES AND PCBS

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Number of Soil Samples : 0

Number of Water Samples : 15

Sample Number :	C01N1	C01N2	C01N3	C01N4	C01N8
Sampling Location :	GWD1	GWU1	GWU2	GWU3	GWU7
Field QC:					Field Blank
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/26/2003	06/26/2003	06/26/2003	06/26/2003	06/26/2003
Time Sampled :	12:45	10:35	10:00	11:10	10:30
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag
alpha-BHC	0.050				
beta-BHC	0.050				
delta-BHC	0.050				
*gamma-BHC (Lindane)	0.050				
*Heptachlor	0.050	0.019	B	0.029	B
Aldrin	0.050	0.011	J	0.017	J
Heptachlor epoxide	0.050			0.017	J
Endosulfan I	0.050				
Dieldrin	0.10				
4,4'-DDE	0.10				
*Endrin	0.10			0.028	J
Endosulfan II	0.10				
4,4'-DDD	0.10				
Endosulfan sulfate	0.10				
4,4'-DDT	0.10				
*Methoxychlor	0.50				
Endrin ketone	0.10				
Endrin aldehyde	0.10			0.010	J
alpha-Chlordane	0.050				
gamma-Chlordane	0.050	0.0086	B	0.0086	B
*Toxaphene	5.0				
*Aroclor-1016	1.0				
*Aroclor-1221	2.0				
*Aroclor-1232	1.0				
*Aroclor-1242	1.0				
*Aroclor-1248	1.0				
*Aroclor-1254	1.0				
*Aroclor-1260	1.0				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: PESTICIDES AND PCBs

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Case #: 31878

Site :

Lab. :

SDG : C01P0

ELKTON FARM

SWOK

Sample Number :	C01P0	C01P1	C01P2	C01P3	C01P4						
Sampling Location :	SWT1	SWT2	SWT3	SWT4	SWT5						
Field QC:	Dupl. of C01P4	Water	Water	Water	Dupl. of C01P1						
Matrix :	ug/L	ug/L	ug/L	ug/L	ug/L						
Units :											
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	11:10	10:15	13:10	09:40	10:15						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050										
beta-BHC	0.050										
delta-BHC	0.050										
*gamma-BHC (Lindane)	0.050										
*Heptachlor	0.050	0.035	B	0.033	B			0.025	B	0.026	B
Aldrin	0.050										
Heptachlor epoxide	0.050										
Endosulfan I	0.050										
Dieldrin	0.10										
4,4'-DDE	0.10										
*Endrin	0.10										
Endosulfan II	0.10										
4,4'-DDD	0.10										
Endosulfan sulfate	0.10										
4,4'-DDT	0.10										
*Methoxychlor	0.50										
Endrin ketone	0.10										
Endrin aldehyde	0.10										
alpha-Chlordane	0.050										
gamma-Chlordane	0.050	0.013	B	0.012	B						
*Toxaphene	5.0										
*Aroclor-1016	1.0										
*Aroclor-1221	2.0										
*Aroclor-1232	1.0										
*Aroclor-1242	1.0										
*Aroclor-1248	1.0										
*Aroclor-1254	1.0										
*Aroclor-1260	1.0										

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: PESTICIDES AND PCBs

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Case #: 31878

Site :

SDG : C01P0
ELKTON FARM

Lab. : SWOK

Sample Number :	C01P5	C01P6	C01P9	C01Q0	C01Q2
Sampling Location :	SWT6	SWT7	SWU1	SWU2	SWU4
Field QC:	Field Blank				
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	06/24/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	09:30	09:00	11:20	10:45	10:50
Dilution Factor :	1.0	1.0	1.0	1.0	1.0
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag
alpha-BHC	0.050				
beta-BHC	0.050				
delta-BHC	0.050				
*gamma-BHC (Lindane)	0.050				
*Heptachlor	0.050	0.030	B	0.073	B
Aldrin	0.050				
Heptachlor epoxide	0.050				
Endosulfan I	0.050				
Dieldrin	0.10				
4,4'-DDE	0.10				
*Endrin	0.10				
Endosulfan II	0.10				
4,4'-DDD	0.10				
Endosulfan sulfate	0.10				
4,4'-DDT	0.10				
*Methoxychlor	0.50				
Endrin ketone	0.10				
Endrin aldehyde	0.10				
alpha-Chlordane	0.050				
gamma-Chlordane	0.050	0.011	J	0.024	J
*Toxaphene	5.0				
*Aroclor-1016	1.0				
*Aroclor-1221	2.0				
*Aroclor-1232	1.0				
*Aroclor-1242	1.0				
*Aroclor-1248	1.0				
*Aroclor-1254	1.0				
*Aroclor-1260	1.0				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

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DATA SUMMARY FORM: PESTICIDES AND PCBs

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01Q7	C01Q8	C01Q9	C01R0	C01R1
Sampling Location :	SEDT1	SEDT2	SEDT3	SEDT4	SEDT5
Field QC:	Dupl. of C01R1				Dupl. of C01Q8
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	11:10	10:15	13:15	09:40	10:15
%Moisture :	23	21	23	24	21
Dilution Factor :	0.99	0.99	1.00	0.99	0.99
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag
alpha-BHC	1.7				
beta-BHC	1.7				
delta-BHC	1.7				
gamma-BHC (Lindane)	1.7				
Heptachlor	1.7	1.7	B	1.7	B
Aldrin	1.7	0.35	J		
Heptachlor epoxide	1.7				
Endosulfan I	1.7				
Dieldrin	3.3				
4,4'-DDE	3.3				
Endrin	3.3				
Endosulfan II	3.3				
4,4'-DDD	3.3				
Endosulfan sulfate	3.3				
4,4'-DDT	3.3				
Methoxychlor	17				
Endrin ketone	3.3				
Endrin aldehyde	3.3				
alpha-Chlordane	1.7				
gamma-Chlordane	1.7				
Toxaphene	170				
Aroclor-1016	33				
Aroclor-1221	67				
Aroclor-1232	33				
Aroclor-1242	33				
Aroclor-1248	33				
Aroclor-1254	33				
Aroclor-1260	33				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: PESTICIDES AND PCBs

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01R3 SST10	C01R4 SST11	C01R8 SST15 Dupl. of C01S2	C01R9 SST2	C01S0 SST3						
Sampling Location :	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg						
Field QC:	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Matrix :	12:26	13:47	11:40	09:44	10:13						
Units :	16	14	15	22	16						
Date Sampled :											
Time Sampled :											
%Moisture :	1.00	0.99	0.99	0.99	0.99						
Dilution Factor :											
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7										
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7	2.0	B	1.7	B	1.5	B				
Aldrin	1.7										
Heptachlor epoxide	1.7										
Endosulfan I	1.7										
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3										
Endosulfan II	3.3										
4,4'-DDD	3.3										
Endosulfan sulfate	3.3										
4,4'-DDT	3.3										
Methoxychlor	17			9.7	B						
Endrin ketone	3.3										
Endrin aldehyde	3.3										
alpha-Chlordane	1.7										
gamma-Chlordane	1.7										
Toxaphene	170										
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: PESTICIDES AND PCBs

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Case #: 31878

Site :

Lab. :

SDG : C01Q7

ELKTON FARM

SWOK

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01S1	C01S2	C01S6	C01S8	C01S9
Sampling Location :	SST4	SST5	SST9	ST10	ST11
Field QC:	Dupl. of C01R8				
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003
Time Sampled :	10:52	11:40	14:20	12:09	13:42
%Moisture :	7	15	14	15	20
Dilution Factor :	1.00	0.99	0.99	0.99	0.99
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag
alpha-BHC	1.7				
beta-BHC	1.7				
delta-BHC	1.7				
gamma-BHC (Lindane)	1.7				
Heptachlor	1.7	1.6	B	2.4	B
Aldrin	1.7				
Heptachlor epoxide	1.7				
Endosulfan I	1.7				
Dieldrin	3.3				
4,4'-DDE	3.3				
Endrin	3.3				
Endosulfan II	3.3				
4,4'-DDD	3.3				
Endosulfan sulfate	3.3				
4,4'-DDT	3.3				
Methoxychlor	17	8.5	B		
Endrin ketone	3.3				
Endrin aldehyde	3.3				
alpha-Chlordane	1.7				
gamma-Chlordane	1.7				
Toxaphene	170				
Aroclor-1016	33				
Aroclor-1221	67				
Aroclor-1232	33				
Aroclor-1242	33				
Aroclor-1248	33				
Aroclor-1254	33				
Aroclor-1260	33				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: PESTICIDES AND PCBS

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Case #: 31878

Site :

Lab. : SWOK

SDG : C01Q7

ELKTON FARM

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	C01T3 ST15 Dupl. of C01T7	C01T4 ST2	C01T5 ST3	C01T6 ST4	C01T7 ST5 Dupl. of C01T3						
Sampling Location :	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg	Soil ug/Kg						
Field QC:											
Matrix :											
Units :											
Date Sampled :	06/24/2003	06/24/2003	06/24/2003	06/24/2003	06/24/2003						
Time Sampled :	11:28	09:33	10:05	10:45	11:28						
%Moisture :	18	13	17	20	17						
Dilution Factor :	0.98	0.98	1.00	0.98	0.99						
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7										
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7										
Aldrin	1.7										
Heptachlor epoxide	1.7										
Endosulfan I	1.7										
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3										
Endosulfan II	3.3										
4,4'-DDD	3.3										
Endosulfan sulfate	3.3										
4,4'-DDT	3.3										
Methoxychlor	17										
Endrin ketone	3.3										
Endrin aldehyde	3.3										
alpha-Chlordane	1.7										
gamma-Chlordane	1.7										
Toxaphene	170										
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCB'S

Page _50_ of _53_

Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01R2	C01R5	C01R6	C01R7	C01S3
Sampling Location :	SST1	SST12	SST13	SST14	SST6
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	13:10	09:40	10:10	11:10	11:32
%Moisture :	9	13	10	17	9
Dilution Factor :	0.97	0.99	0.98	0.98	0.97
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag
alpha-BHC	1.7				
beta-BHC	1.7				
delta-BHC	1.7				
gamma-BHC (Lindane)	1.7				
Heptachlor	1.7	1.3	B	1.4	B
Aldrin	1.7				
Heptachlor epoxide	1.7				
Endosulfan I	1.7				
Dieldrin	3.3				
4,4'-DDE	3.3				
Endrin	3.3				
Endosulfan II	3.3				
4,4'-DDD	3.3				
Endosulfan sulfate	3.3				
4,4'-DDT	3.3				
Methoxychlor	17	4.4	J	3.0	J
Endrin ketone	3.3				
Endrin aldehyde	3.3				
alpha-Chlordane	1.7				
gamma-Chlordane	1.7	0.49	B	0.54	B
Toxaphene	170				
Aroclor-1016	33				
Aroclor-1221	67				
Aroclor-1232	33				
Aroclor-1242	33				
Aroclor-1248	33				
Aroclor-1254	33				
Aroclor-1260	33				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBs

Page 51 of 53

Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01S4	C01S5	C01S7	C01T0	C01T1
Sampling Location :	SST7	SST8	ST1	ST12	ST13
Field QC:					
Matrix :	Soil	Soil	Soil	Soil	Soil
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Time Sampled :	11:57	10:40	13:05	09:35	10:05
%Moisture :	18	9	14	20	19
Dilution Factor :	0.97	0.97	0.98	1.00	1.00
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag
alpha-BHC	1.7				
beta-BHC	1.7				
delta-BHC	1.7				
gamma-BHC (Lindane)	1.7				
Heptachlor	1.7	2.0	B	1.8	B
Aldrin	1.7				
Heptachlor epoxide	1.7				
Endosulfan I	1.7				
Dieldrin	3.3				
4,4'-DDE	3.3				
Endrin	3.3				
Endosulfan II	3.3				
4,4'-DDD	3.3				
Endosulfan sulfate	3.3				
4,4'-DDT	3.3				
Methoxychlor	17				
Endrin ketone	3.3				
Endrin aldehyde	3.3				
alpha-Chlordane	1.7				
gamma-Chlordane	1.7	0.74	B	0.65	B
Toxaphene	170				
Aroclor-1016	33				
Aroclor-1221	67				
Aroclor-1232	33				
Aroclor-1242	33				
Aroclor-1248	33				
Aroclor-1254	33				
Aroclor-1260	33				

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Page 52 of 53

Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01T2 ST14	C01T8 ST6	C01T9 ST7	C01W0 ST8	C01W1 ST9						
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7										
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7	1.7	B	2.7	B	1.6	B			1.6	B
Aldrin	1.7										
Heptachlor epoxide	1.7										
Endosulfan I	1.7										
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3										
Endosulfan II	3.3										
4,4'-DDD	3.3										
Endosulfan sulfate	3.3										
4,4'-DDT	3.3										
Methoxychlor	17			3.0	J	7.4	J	2.6	J	7.6	J
Endrin ketone	3.3										
Endrin aldehyde	3.3										
alpha-Chlordane	1.7										
gamma-Chlordane	1.7										
Toxaphene	170										
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBs

Page _53__ of _53__

Case #: 31878

Site :

Lab. :

SDG : C01W1

ELKTON FARM

SWOK

Number of Soil Samples : 18

Number of Water Samples : 0

Sample Number :	C01X7	C01X8	C01Y0								
Sampling Location :	SEDU1	SEDU2	SEDU4								
Field QC:		Dupl. of C01Y0	Dupl. of C01X8								
Matrix :	Soil	Soil	Soil								
Units :	ug/Kg	ug/Kg	ug/Kg								
Date Sampled :	06/25/2003	06/25/2003	06/25/2003								
Time Sampled :	11:25	10:55	11:00								
%Moisture :	25	23	20								
Dilution Factor :	0.99	0.98	1.00								
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7										
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7	1.5	B	1.4	B	1.6	B				
Aldrin	1.7										
Heptachlor epoxide	1.7										
Endosulfan I	1.7										
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3										
Endosulfan II	3.3										
4,4'-DDD	3.3										
Endosulfan sulfate	3.3										
4,4'-DDT	3.3										
Methoxychlor	17										
Endrin ketone	3.3										
Endrin aldehyde	3.3										
alpha-Chlordane	1.7										
gamma-Chlordane	1.7			0.47	B	0.60	B				
Toxaphene	170										
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

Appendix C

Tentatively Identified Compounds

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01N1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52743.01

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R070115.D

Level: (low/med) LOW

Date Received: 06/27/03

% Moisture: not dec. _____

Date Analyzed: 07/02/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.38	10	J+
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01N3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52743.03

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R070118.D

Level: (low/med) LOW

Date Received: 06/27/03

% Moisture: not dec. _____

Date Analyzed: 07/02/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	15.37	9	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

DU
6/2/03

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01N8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52743.06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R070205.D

Level: (low/med) LOW

Date Received: 06/27/03

% Moisture: not dec. _____

Date Analyzed: 07/02/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	15.34	11	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

DD
8/2/03

60

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.04

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R063008.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. _____

Date Analyzed: 06/30/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.41	6	3
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

DU
6/25/03

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R063014.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. _____

Date Analyzed: 07/01/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.41	6	5
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
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22.				
23.				
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28.				
29.				
30.				

CC. 82

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.07

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R063016.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. _____

Date Analyzed: 07/01/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.40	6	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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16.				
17.				
18.				
19.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

DJ
8/1/03

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P7

Lab Code: SWOK

Case No.: 31878

SAS No.:

TRIP BLANK
SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.09

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R063018.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. _____

Date Analyzed: 07/01/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.40	6	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

TRIP BLANK

Matrix: (soil/water) WATER

Lab Sample ID: 52727.02

Sample wt/vol: 5 (g/mL) ML

Lab File ID: R070106.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. _____

Date Analyzed: 07/01/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	15.38	6	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.09

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: U062715.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. 14

Date Analyzed: 06/27/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.77	7	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R8

Lab Code: SWOK Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.10

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: U062613.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. 15

Date Analyzed: 06/26/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	11.81	6	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S0

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.12

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: U062616.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. 16

Date Analyzed: 06/26/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.54	13	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.13

Sample wt/vol: 6.2 (g/mL) G

Lab File ID: U062617.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. 7

Date Analyzed: 06/26/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.79	5	J
2.	556-67-2 CYCLOTETRASILOXANE, OCTAMETHYL	14.46	8	JN
3.	UNKNOWN	16.49	10	J
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.14

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: U062619.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. 15

Date Analyzed: 06/26/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 74-99-7	1-PROPYNE	1.63	10	JN
2. 74-88-4	METHANE, IODO-	5.52	6	JN
3. _____	UNKNOWN	7.71	12	J
4. _____	UNKNOWN	8.08	8	J
5. _____	UNKNOWN	11.81	9	J
6. 66-25-1	HEXANAL	12.09	12	JN
7. 5989-27-5	D-LIMONENE	15.32	10	JN
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S6

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.15

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: U062620.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: not dec. 14

Date Analyzed: 06/26/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.67	8	J
2.	UNKNOWN	8.08	8	J
3.	UNKNOWN	8.85	7	J
4.	UNKNOWN	11.81	6	J
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.01

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: U062721.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 9

Date Analyzed: 06/27/03

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	11.79	6	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R5

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.02

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: U062722.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 13

Date Analyzed: 06/27/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	11.78	6	J
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R6

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.03

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: U062724.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 10

Date Analyzed: 06/27/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.78	6	J
2.	<u>CYCLOTETRASILOXANE</u>	14.44	5	J
3.	UNKNOWN	16.47	7	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.04

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: U062725.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 17

Date Analyzed: 06/27/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.78	7	J
2.	UNKNOWN	16.50	6	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.05

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: U062727.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 9

Date Analyzed: 06/27/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.77	7	J
2.				
3.				
4.				
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S5

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.07

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: U063008.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 9

Date Analyzed: 06/30/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 10

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.27	8	J
2.	UNKNOWN	7.76	32	J
3.	UNKNOWN	8.16	18	J
4.	UNKNOWN	8.92	9	J
5.	UNKNOWN	10.29	6	J
6.	UNKNOWN	11.13	7	J
7.	CYCLOTRISSILOXANE	11.92	12	J
8.	556-67-2 CYCLOTETRASILOXANE, OCTAMETHYL	14.50	11	JN
9.	104-76-7 1-HEXANOL, 2-ETHYL-	15.81	7	JN
10.	UNKNOWN	16.62	12	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.08

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: U063014.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: not dec. 14

Date Analyzed: 06/30/03

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICS found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	7.77	16	J
2. _____	UNKNOWN	8.15	8	J
3. _____	UNKNOWN	10.27	7	J
4. _____	UNKNOWN	11.91	6	J
5. 66-25-1	HEXANAL	12.20	35	JN
6. 111-71-7	HEPTANAL	13.92	8	JN
7. _____				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01N1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52743.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3070117.D

Level: (low/med) LOW

Date Received: 06/27/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/28/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/01/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.89	3	JB
2.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01N4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52743.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3070120.D

Level: (low/med) LOW

Date Received: 06/27/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/28/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/01/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Extraction: (Type) CONT

Number TICS found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 558-37-2	1-BUTENE, 3,3-DIMETHYL-	5.09	3	JN
2. 120-40-1	DODECANAMIDE, N,N-BIS(2-HYDROXYETHY	10.94	5	JN
3. 134-62-3	DIETHYLTOLUAMIDE	11.21	4	JN
4. 131-57-7	OXYBENZONE	14.71	3	JN
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01N8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52743.06

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3070121.D

Level: (low/med) LOW

Date Received: 06/27/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/28/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/01/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.88	3	JB
2.				
3.				
4.				
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8/2/03

303

1G
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P0

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3063015.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/30/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2896-60-8	1,3-BENZENEDIOL, 4-ETHYL-	3.96	4	JN
2.				
3.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3063016.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/30/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

Extraction: (Type) CONT

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.95	3	JB
2.	74367-33-2 PROPAANOIC ACID, 2-METHYL-, 2,2-DIME	9.15	2	JN
3.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3063017.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/30/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.97	4	JB
2.				
3.				
4.				
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**SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01P3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.06

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3063018.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/30/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.97	3	JB
2.				
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OLM04.3

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52718.07

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3063019.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/30/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Extraction: (Type) CONT

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	3.17	2	JNA
2. _____	UNKNOWN	3.96	3	JB+
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P5

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

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Matrix: (soil/water) WATER

Lab Sample ID: 52718.08

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3063020.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/30/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9

Extraction: (Type) CONT

Number TICS found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.16	3	JNA
2. _____	UNKNOWN	3.96	3	JB
3. _____	UNKNOWN	9.16	2	J
4. 110-27-0	ISOPROPYL MYRISTATE	13.15	2	JN
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P6

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: T-1E¹⁰ C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52727.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3070113.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/01/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.09	3	JB
2.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01P9

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52727.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3070114.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/01/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.90	2	JB
2.				
3.				
4.				
5.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01Q2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01P0

Matrix: (soil/water) WATER

Lab Sample ID: 52727.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J3070116.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: _____ Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/01/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Extraction: (Type) CONT

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.89	2	JB
2.				
3.				
4.				
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**SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01Q7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.01

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070220.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 23 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/02/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Extraction: (Type) SONC

Number TICS found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.08	12000	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.38	330	JN
3. _____	UNKNOWN	3.86	170	JB
4. _____	UNKNOWN	4.00	600	JB
5. _____	UNKNOWN	4.20	300	JB
6. _____	UNKNOWN	5.36	910	J
7. 112-42-5	1-UNDECANOL	10.17	170	JN
8. 139-66-2	DIPHENYL SULFIDE	11.33	87	JN
9. 112-53-8	1-DODECANOL	12.04	350	JN
10. 872-05-9	1-DECENE	12.32	120	JN
11. _____	UNKNOWN HYDROCARBON	13.47	87	J
12. 57-10-3	HEXADECANOIC ACID	14.01	140	JN
13. _____	UNKNOWN AMIDE	16.62	240	JB
14. _____	UNKNOWN	19.08	100	J
15. _____	UNKNOWN	20.17	120	J
16. _____	UNKNOWN	20.42	89	J
17. _____	UNKNOWN	20.49	290	J
18. _____	UNKNOWN	20.59	410	J
19. 57-88-5	CHOLESTEROL	20.71	93	JN
20. _____	UNKNOWN	20.97	100	J
21. _____	UNKNOWN	21.77	210	J
22. _____	UNKNOWN	22.66	100	J
23. _____	UNKNOWN	23.26	230	J
24. _____	UNKNOWN	23.44	150	J
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01Q8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.02

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J3070221.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 21 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/02/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Extraction: (Type) SONC

Number TICS found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.09	9400	JNBA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.38	270	JNB
3. _____	UNKNOWN	3.67	130	JB
4. _____	UNKNOWN	4.01	440	JB
5. _____	UNKNOWN	4.20	240	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.35	360	JN
7. _____	UNKNOWN	5.36	890	J
8. _____	UNKNOWN	7.27	92	J
9. 872-05-9	1-DECENE	10.17	130	JN
10. _____	UNKNOWN	12.04	160	J
11. _____	UNKNOWN	12.22	100	J
12. _____	UNKNOWN ORGANIC ACID	14.00	92	J
13. _____	UNKNOWN AMIDE	16.62	310	JB
14. _____	UNKNOWN	16.87	260	J
15. _____	UNKNOWN	20.42	110	J
16. _____	UNKNOWN	20.49	250	J
17. _____	UNKNOWN	20.59	400	J
18. _____	UNKNOWN	20.96	110	J
19. _____	UNKNOWN	21.77	120	J
20. _____	UNKNOWN	23.26	120	J
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

4/11/03

**SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01Q9

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.03

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070222.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 23 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9

Extraction: (Type) SONC

Number TICS found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.09	10000	JNBA
2. UNKNOWN		3.88	110	JB
3. UNKNOWN		4.00	440	JB
4. UNKNOWN		4.20	300	JB
5. UNKNOWN		5.36	750	J
6. 112-53-8	1-DODECANOL	10.17	95	JN
7. 112-41-4	1-DODECENE	12.04	110	JN
8. CIS-2-METHYL-7-OCTADECENE		12.32	89	J
9. 57-10-3	HEXADECANOIC ACID	14.00	100	JN
10. UNKNOWN AMIDE		16.62	100	JB
11. UNKNOWN		20.17	95	J
12. UNKNOWN		20.49	240	J
13. UNKNOWN		20.59	320	J
14. UNKNOWN		20.70	93	J
15. UNKNOWN		23.27	94	J
16.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R0

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.04

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070223.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 24 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Extraction: (Type) SONC

Number TICS found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4 HYDROXY-4 METHYL	3.08	13000	JNBA
2. _____	UNKNOWN	3.87	140	JB
3. _____	UNKNOWN	4.01	450	JB
4. _____	UNKNOWN	4.21	250	JB
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.37	2400	JN
6. _____	UNKNOWN	5.37	800	J
7. 112-53-8	1-DODECANOL	10.17	140	JN
8. 35507-09-6	7-HEXADECENE, (Z)-	12.04	150	JN
9. _____	UNKNOWN	12.22	250	J
10. _____	UNKNOWN	12.32	120	J
11. _____	UNKNOWN	14.28	190	J
12. _____	UNKNOWN	15.51	110	J
13. _____	UNKNOWN	16.86	1200	J
14. _____	UNKNOWN	18.38	99	J
15. _____	UNKNOWN	18.49	120	J
16. _____	UNKNOWN	20.35	91	J
17. _____	UNKNOWN	20.48	250	J
18. _____	UNKNOWN	20.59	350	J
19. _____	UNKNOWN	20.71	120	J
20. _____	UNKNOWN	20.97	100	J
21. _____	UNKNOWN	21.78	95	J
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

6/21/03

431

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.05

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: J3070224.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 21 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Extraction: (Type) SONC

Number TICS found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.08	13000	JNDA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.38	370	JN
3. UNKNOWN		3.87	140	JB
4. UNKNOWN		4.00	340	JB
5. UNKNOWN		4.21	220	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.35	190	JN
7. UNKNOWN		5.37	410	J
8. UNKNOWN		7.27	110	J
9. 74630-31-2	2-DECENE, 6-METHYL-, (Z)-	12.32	92	JN
10. UNKNOWN		20.35	110	J
11. UNKNOWN		20.50	190	J
12. UNKNOWN		20.59	310	J
13.				
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464

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.06

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: J3070309.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 16 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Extraction: (Type) SONC

Number TICS found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4 HYDROXY-4-METHYL	3.05	6700	JNBA
2. _____	UNKNOWN	3.84	100	JB
3. _____	UNKNOWN	3.96	110	JB
4. _____	UNKNOWN	4.17	310	JB
5. _____	UNKNOWN	5.32	290	J
6. 139-66-2	DIPHENYL SULFIDE	11.27	100	JN
7. _____	UNKNOWN	13.10	85	J
8. _____	UNKNOWN AMIDE	15.33	180	J
9. _____	UNKNOWN AMIDE	15.45	280	JB
10. _____	UNKNOWN AMIDE	16.57	3900	JB
11. _____	UNKNOWN AMIDE	16.70	190	JB
12. _____	UNKNOWN	20.24	1500	J
13. _____	UNKNOWN	20.42	130	J
14. _____	UNKNOWN	20.52	130	J
15. 123-28-4	PROPANOIC ACID, 3,3'-THIODIS-, DIO	23.14	830	JN
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.09

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J3070313.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 14 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Extraction: (Type) SONC

Number TICS found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	11000	JNBA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.34	840	JNB
3. UNKNOWN		3.83	120	JB
4. 110-13-4	2,5-HEXANEDIONE	3.95	140	JN
5. UNKNOWN		4.17	300	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.31	80	JN
7. UNKNOWN		5.24	82	J
8. UNKNOWN		5.32	93	J
9. UNKNOWN		11.26	96	J
10. UNKNOWN	PHTHALATE	13.39	85	J
11. UNKNOWN	AMIDE	15.33	190	J
12. UNKNOWN	AMIDE	15.44	250	JB
13. 301-02-0	9-OCTADECANAMIDE, (Z)-	16.57	3500	JN
14. 124-26-5	OCTADECANAMIDE	16.70	200	JN
15. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.15	800	JN
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515

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.10

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070314.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 15 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Extraction: (Type) SONC

Number TICS found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	8200	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.35	240	JN
3. _____	UNKNOWN	3.83	79	JB
4. _____	UNKNOWN	3.97	310	JB
5. _____	UNKNOWN	4.17	130	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.33	1400	JN
7. _____	UNKNOWN	5.32	330	J
8. 872-05-9	1-DECENE	10.12	180	JN
9. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-	12.25	160	JN
10. _____	UNKNOWN	14.23	120	J
11. _____	UNKNOWN	15.45	100	J
12. _____	UNKNOWN AMIDE	16.56	650	JB
13. _____	UNKNOWN	16.81	1000	J
14. 423-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIO	23.14	93	JN
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
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541

FORM I SV-TIC

OLM04.3

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01R9

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.11

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070315.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 22 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4

Extraction: (Type) SONC

Number TICS found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL-	3.06	11000	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.34	240	JN
3. UNKNOWN		3.83	120	JB
4. UNKNOWN		3.96	490	JB
5. UNKNOWN		4.17	300	JB
6. UNKNOWN		5.32	430	J
7. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-	12.26	4500	JN
8. UNKNOWN		13.98	220	J
9. 35572-78-2	BENZENAMINE, 2-METHYL-3,5-DINITRO-	14.37	380	JN
10. UNKNOWN AMIDE		16.56	180	JB
11. UNKNOWN PHTHALATE		19.02	120	J
12. UNKNOWN PHTHALATE		19.08	140	J
13. UNKNOWN PHTHALATE		19.15	180	J
14. UNKNOWN PHTHALATE		19.21	110	J
15.				
16.				
17.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01SO

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.12

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070316.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 16 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

Extraction: (Type) SONC

Number TICS found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	10000	JNEA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.35	210	JN
3. _____	UNKNOWN	3.83	120	JB
4. _____	UNKNOWN	3.97	440	JB
5. _____	UNKNOWN	4.17	200	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.32	81	JN
7. _____	UNKNOWN	5.32	610	J
8. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-	12.25	230	JN
9. 57-10-3	HEXADECANOIC ACID	13.96	96	JN
10. 101-68-8	BENZENE, 1,1'-METHYLENEBIS[4-ISOCYA]	15.07	340	JN
11. 301-02-0	9-OCTADECANAMIDE, (Z)-	16.57	250	JN
12. 6971-40-0	17-PENTATRIACONTENE	19.02	180	JN
13. 112-92-5	1-OCTADECANOL	20.27	150	JN
14. _____	UNKNOWN	21.21	100	J
15. 14021-23-9	D-FRIEDOLEAN-14-ENE, 3-METHOXY-, (21.34	120	JN
16. 83-47-6	.GAMMA.-SITOSTEROL	21.70	160	JN
17. _____	UNKNOWN	22.55	120	J
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
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591

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01S1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.13

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: J3070317.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 7 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

Extraction: (Type) SONC

Number TICS found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	8000	JNB
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.34	360	JNB
3.	UNKNOWN	3.84	85	JB
4. 110-13-4	2,5-HEXANEDIONE	3.96	77	JN
5.	UNKNOWN	4.17	250	JB
6.	UNKNOWN	5.33	71	J
7. 10546-70-0	BENZAMIDE, N-PROPYL-	17.29	180	JN
8.	UNKNOWN	20.53	80	J
9.				
10.				
11.				
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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.14

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: J3070318.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 15 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4

Extraction: (Type) SONC

Number TICS found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	3.06	13000	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.35	190	JN
3. 930-60-9	4-CYCLOPENTENE-1,3-DIONE	3.51	100	JN
4. _____	UNKNOWN	3.77	95	J
5. _____	UNKNOWN	3.83	150	JB
6. 110-13-4	2,5-HEXANEDIONE	3.95	320	JN
7. _____	UNKNOWN	4.17	330	JB
8. _____	UNKNOWN	5.32	410	J
9. _____	UNKNOWN	6.95	87	J
10. 83-47-6	.GAMMA.-SITOSTEROL	21.70	200	JN
11. 1058-61-3	STIGMAST-4-EN-3-ONE	22.56	160	JN
12. _____	UNKNOWN	22.83	110	J
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
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29. _____				
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639

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S6

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.15

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070319.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 14 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Extraction: (Type) SONC

Number TICS found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL-	3.06	11000	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.34	270	JN
3. _____	UNKNOWN	3.83	110	JB
4. _____	UNKNOWN	3.96	220	JB
5. _____	UNKNOWN	4.17	300	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.31	220	JN
7. _____	UNKNOWN	5.32	450	J
8. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.15	120	JN
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

663

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.16

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: J3070320.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 15 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

Extraction: (Type) SONC

Number TICS found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.04	9000	JNBA
2. _____	UNKNOWN	3.83	89	JB
3. _____	UNKNOWN	3.97	350	JB
4. _____	UNKNOWN	4.17	100	JB
5. _____	UNKNOWN	5.31	490	J
6. _____	UNKNOWN	11.27	110	J
7. 112-41-4	1-DODECENE	12.00	770	JN
8. _____	UNKNOWN AMIDE	15.34	230	J
9. _____	UNKNOWN AMIDE	15.45	340	JB
10. 301-02-0	9-OCTADECANAMIDE, (Z)-	16.58	4200	JN
11. _____	UNKNOWN AMIDE	16.69	230	JB
12. _____	UNKNOWN	21.48	110	J
13. _____	UNKNOWN	21.70	160	J
14. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.15	360	JN
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

680

**SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01S9

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.17

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070321.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 20 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Extraction: (Type) SONC

Number TICS found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	8300	JNBA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.34	270	JNE
3. _____	UNKNOWN	3.96	310	JB
4. _____	UNKNOWN	4.17	370	JB
5. _____	UNKNOWN	5.32	440	J
6. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.57	390	JN
7. _____	UNKNOWN	20.53	100	J
8. _____	UNKNOWN ALDEHYDE	20.90	100	J
9. 83-47-6	.GAMMA.-SITOSTEROL	21.69	300	JN
10. _____	UNKNOWN	22.19	95	J
11. 638-95-9	.ALPHA.-AMYRIN	22.35	220	JN
12. _____	UNKNOWN	23.15	100	J
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01T3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.18

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070322.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 18 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9

Extraction: (Type) SONC

Number TICS found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4 HYDROXY-4-METHYL	3.05	0100	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.34	150	JN
3. _____	UNKNOWN	3.84	100	JB
4. _____	UNKNOWN	3.96	260	JB
5. _____	UNKNOWN	4.17	310	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.32	1200	JN
7. _____	UNKNOWN	5.24	88	J
8. _____	UNKNOWN	5.33	340	J
9. 7433-56-9	5-DECENE, (E)-	10.13	100	JN
10. _____	UNKNOWN	12.16	130	J
11. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-	12.24	360	JN
12. 16118-22-2	BENZENEMETHANIMINE	13.98	110	JN
13. 35572-78-2	BENZENAMINE, 2-METHYL-3,5-DINITRO-	14.37	120	JN
14. 301-02-0	9-OCTADECANAMIDE, (Z)-	16.57	190	JN
15. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.82	410	JN
16. _____	UNKNOWN	18.50	83	J
17. _____	UNKNOWN	19.37	97	J
18. _____	UNKNOWN	21.70	110	J
19. 123-20-4	PROPANOIC ACID, 3,3'-THIOPHOBIS-, DIO	23.16	160	JN
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

729

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01T4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.19

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: J3070323.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 13 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 423-42-2	PENTANONE, 4-HYDROXY-4-METHYL-	3.05	7600	JNBA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.34	100	JN
3. _____	UNKNOWN	3.84	110	JB
4. _____	UNKNOWN	3.96	210	JB
5. _____	UNKNOWN	4.17	310	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.31	90	JN
7. _____	UNKNOWN	5.24	76	J
8. _____	UNKNOWN	5.32	310	J
9. _____	UNKNOWN	12.18	87	J
10. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-	12.30	17000	JN
11. 16607-77-5	1,3,7-OCTATRIEN-5-YNE	13.99	820	JN
12. 35572-78-2	BENZENAMINE, 2-METHYL-3,5-DINITRO-	14.38	1200	JN
13. 301-02-0	9-OCTADECANAMIDE, (Z)-	16.57	120	JN
14. _____	UNKNOWN HYDROCARBON	18.31	130	J
15. _____	UNKNOWN	18.35	87	J
16. _____	UNKNOWN	18.50	150	J
17. _____	UNKNOWN	18.80	120	J
18. _____	UNKNOWN	19.17	100	J
19. _____	UNKNOWN	19.37	150	J
20. _____	UNKNOWN	20.53	85	J
21. _____	UNKNOWN	21.49	160	J
22. _____	UNKNOWN	21.70	83	J
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

761

1G
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01T5

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.20

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070324.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 17 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

Extraction: (Type) SONC

Number TICS found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4 HYDROXY 4 METHYL	3.06	9600	JNBA
2.	UNKNOWN	3.93	110	JB
3.	UNKNOWN	3.97	300	JB
4.	UNKNOWN	4.17	300	JB
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.33	1300	JN (4/2/03)
6.	UNKNOWN	5.32	610	J
7. 139-66-2	DIPHENYL SULFIDE	11.28	82	JN
8.	UNKNOWN	12.04	100	J
9. 57-10-3	HEXADECANOIC ACID	13.96	130	JN
10.	UNKNOWN	14.38	140	J
11. 101-68-8	BENZENE, 1,1'-METHYLENEBIS[4-ISOCYA	15.07	170	JN
12.	UNKNOWN AMIDE	15.34	180	J
13.	UNKNOWN AMIDE	15.45	300	JB
14.	UNKNOWN AMIDE	16.58	3300	JB
15.	UNKNOWN AMIDE	16.70	160	JB
16.	UNKNOWN	16.82	680	J
17.	UNKNOWN	18.44	83	J
18.	UNKNOWN	21.21	86	J
19. 83-47-6	.GAMMA.-SITOSTEROL	21.71	160	JN
20. 123-20-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.18	11000	JN
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

.. 813

1G
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01T6

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.21

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: J3070325.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 20 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Extraction: (Type) SONC

Number TICS found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	7300	JNBA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.34	85	JNB
3. _____	UNKNOWN	3.84	92	JB
4. _____	UNKNOWN	3.96	220	JB
5. _____	UNKNOWN	4.18	200	JB
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.32	1300	JN
7. _____	UNKNOWN	5.33	390	J
8. 872-05-9	1-DECENE	10.13	130	JN
9. 112-41-4	1-DODECENE	11.99	290	JN
10. 57-10-3	HEXADECANOIC ACID	13.97	100	JN
11. _____	UNKNOWN AMIDE	15.46	120	JB
12. _____	UNKNOWN AMIDE	16.57	790	JB
13. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.82	610	JN
14. 842-07-9	2-NAPHTHALENOL, 1-(PHENYLAZO)-	18.92	760	JN
15. 83-47-6	GAMMA.-SITOSTEROL	21.70	130	JN
16. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.16	280	JN
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

.. 848

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01T7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01Q7

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.22

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070326.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 17 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/03/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4

Extraction: (Type) SONC

Number TICS found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.05	6500	JNBA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.34	100	JNB
3. _____	UNKNOWN	3.86	190	JB
4. _____	UNKNOWN	4.17	240	JB
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.32	1300	JN
6. _____	UNKNOWN	5.33	240	J
7. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRINITRO-	12.25	1200	JN
8. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	13.98	320	JN
9. _____	UNKNOWN	14.23	180	J
10. 35572-78-2	BENZENAMINE, 2-METHYL-3,5-DINITRO-	14.37	300	JN
11. _____	UNKNOWN AMIDE	16.57	110	JB
12. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.82	510	JN
13. _____	UNKNOWN	17.71	100	JB
14. _____	UNKNOWN	18.79	100	J
15. _____	UNKNOWN	19.02	87	J
16. _____	UNKNOWN	19.17	88	J
17. _____	UNKNOWN	20.43	87	J
18. _____	UNKNOWN	20.53	93	J
19. _____	UNKNOWN	21.37	83	J
20. _____	UNKNOWN	21.69	140	J
21. _____	UNKNOWN	23.16	150	J
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01R2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.01

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J3070811.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 9 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/08/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Extraction: (Type) SONC

Number TICS found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.02	5200	JNA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.31	610	JNB
3. _____	UNKNOWN	3.82	93	J
4. 110-13-4	2,5-HEXANEDIONE	3.92	78	JN
5. _____	UNKNOWN	4.14	230	J
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.32	1700	JN
7. _____	UNKNOWN	12.12	90	J
8. _____	UNKNOWN	14.18	140	J
9. 57-10-3	HEXADECANOIC ACID	14.36	77	JN
10. _____	UNKNOWN AMIDE	16.52	190	J
11. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.78	1100	JN
12. _____	UNKNOWN	18.97	100	J
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
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29. _____				
30. _____				

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**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01R5

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.02

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070812.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 13 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/08/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

Extraction: (Type) SONC

Number TICS found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.97	140	J
2.	123-42-2 PENTANONE, 4-HYDROXY-4-METHYL-	3.02	5200	JNA
3.	95-47-6 BENZENE, 1,2-DIMETHYL-	3.31	400	JNB
4.	UNKNOWN	3.82	87	J
5.	UNKNOWN	3.93	320	J
6.	UNKNOWN	4.24	190	J
7.	111-46-6 ETHANOL, 2,2'-OXYBIS-	4.34	2400	JN
8.	UNKNOWN	5.28	160	J
9.	UNKNOWN	5.54	100	J
10.	57-10-3 HEXADECANOIC ACID UNKNOWN	13.92	98	JN
11.	UNKNOWN	14.18	210	J
12.	57-10-3 HEXADECANOIC ACID UNKNOWN	14.35	90	JN
13.	UNKNOWN	15.41	81	J
14.	UNKNOWN AMIDE	16.53	180	J
15.	UNKNOWN	16.77	1200	J
16.				
17.				
18.				
19.				
20.				
21.				
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SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: SWL-TULSA

Contract: 68W03024

C01R6

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.03

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J3070716.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 10 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL-	3.00	4400	JNA
2. _____	UNKNOWN	3.09	120	J
3. _____	UNKNOWN	3.91	470	J
4. _____	UNKNOWN	4.10	290	J
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.31	1400	JN
6. _____	UNKNOWN	5.24	510	J
7. 95-16-9	BENZOTHIAZOLE	7.54	130	JN
8. _____	UNKNOWN	14.13	130	J
9. 57-11-4	OCTADECANOIC ACID	15.19	110	JN
10. _____	UNKNOWN	15.81	100	J
11. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.72	890	JN
12. _____	UNKNOWN	18.77	140	J
13. _____	UNKNOWN	19.08	110	J
14. _____	UNKNOWN	19.25	220	J
15. _____	UNKNOWN	19.62	110	J
16. _____	UNKNOWN	19.90	110	J
17. _____	UNKNOWN	19.99	150	J
18. _____	UNKNOWN	20.20	130	J
19. _____	UNKNOWN	20.32	240	J
20. _____	UNKNOWN	20.72	220	J
21. _____	UNKNOWN	21.21	110	J
22. _____	UNKNOWN	21.28	110	J
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01R7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.04

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: J3072112.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 17 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/21/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	2.93	8000	JNA
2. _____	UNKNOWN	3.04	280	J
3. _____	UNKNOWN	3.85	650	J
4. _____	UNKNOWN	4.05	740	J
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.20	420	JN
6. _____	UNKNOWN	5.16	680	J
7. 57-10-3	HEXADECANOIC ACID	13.81	270	JN
8. 112-80-1	OLEIC ACID	15.02	410	JN
9. _____	UNKNOWN	18.14	340	J
10. _____	UNKNOWN	18.70	200	J
11. _____	UNKNOWN	19.55	300	J
12. _____	UNKNOWN	19.64	190	J
13. _____	UNKNOWN	19.70	260	J
14. _____	UNKNOWN	19.84	380	J
15. _____	UNKNOWN	19.93	400	J
16. _____	UNKNOWN	20.04	250	J
17. _____	UNKNOWN	20.13	470	J
18. _____	UNKNOWN	20.25	640	J
19. _____	UNKNOWN	20.65	290	J
20. _____	UNKNOWN	21.15	670	J
21. _____	UNKNOWN	21.20	170	J
22. _____	UNKNOWN	21.54	300	J
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S3

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.05

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: J3070718.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 9 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

Extraction: (Type) SONC

Number TICS found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.00	3900	JNA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.29	72	JNB
3. _____	UNKNOWN	3.91	220	J
4. _____	UNKNOWN	4.11	150	J
5. _____	UNKNOWN	4.21	89	J
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.30	1100	JN
7. _____	UNKNOWN	5.24	430	J
8. 1120-07-6	NONANAMIDE	13.99	110	JN
9. _____	UNKNOWN	14.12	76	J
10. _____	UNKNOWN AMIDE	15.24	170	J
11. _____	UNKNOWN AMIDE	15.35	290	J
12. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.47	2900	JN
13. _____	UNKNOWN AMIDE	16.59	99	J
14. _____	UNKNOWN	16.72	970	J
15. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.00	9800	JN
16. _____				
17. _____				
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

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**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01S4

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.06

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J3070719.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 18 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

Extraction: (Type) SONC

Number TICS found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.01	5100	JNA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.29	300	JNB
3. _____	UNKNOWN	3.78	110	J
4. _____	UNKNOWN	3.91	270	J
5. _____	UNKNOWN	4.10	230	J
6. _____	UNKNOWN	4.22	190	J
7. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.33	2800	JN
8. _____	UNKNOWN	5.19	100	J
9. _____	UNKNOWN	5.24	380	J
10. _____	UNKNOWN	5.99	140	J
11. 95-16-9	BENZOTHIAZOLE	7.55	140	JN
12. _____	UNKNOWN	12.08	190	J
13. _____	UNKNOWN	14.13	140	J
14. _____	UNKNOWN	14.30	180	J
15. _____	UNKNOWN AMIDE	15.36	190	J
16. _____	UNKNOWN AMIDE	16.46	1000	J
17. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.72	1400	JN
18. _____	UNKNOWN	18.34	130	J
19. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	22.96	210	JN
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

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1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S5

Lab Code: SWOK Case No.: 31878 SAS No.: SDG No.: C01W1

Matrix: (soil/water) SOIL Lab Sample ID: 52729.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J3072113.D

Level: (low/med) LOW Date Received: 06/26/03

% Moisture: 9 Decanted: (Y/N) N Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/21/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y Extraction: (Type) SONC

Number TICS found: 23 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	2.93	7800	JNA
2. _____	UNKNOWN	3.04	240	J
3. _____	UNKNOWN	3.68	150	J
4. _____	UNKNOWN	3.85	720	J
5. _____	UNKNOWN	4.05	570	J
6. _____	UNKNOWN	5.16	450	J
7. 57-10-3	HEXADECANOIC ACID	13.81	200	JN
8. _____	UNKNOWN	15.73	180	J
9. _____	UNKNOWN	16.21	170	J
10. _____	UNKNOWN AMIDE	16.40	340	J
11. _____	UNKNOWN	16.80	140	J
12. _____	UNKNOWN	18.14	170	J
13. _____	UNKNOWN	18.87	190	J
14. _____	UNKNOWN	19.19	170	J
15. _____	UNKNOWN	19.56	230	J
16. _____	UNKNOWN	19.72	190	J
17. _____	UNKNOWN	19.83	330	J
18. _____	UNKNOWN	19.93	340	J
19. _____	UNKNOWN	20.04	210	J
20. _____	UNKNOWN	20.13	370	J
21. 36728-72-0	28-NOR-17.BETA. (H)-HOPANE	20.25	410	JN
22. _____	UNKNOWN	20.64	260	J
23. _____	UNKNOWN	21.14	160	J
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

516

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01S7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.08

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: J3070721.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 14 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.01	6200	JNA
2. 108-38-3	BENZENE, 1,3-DIMETHYL-	3.29	170	JN
3. _____	UNKNOWN	3.77	100	J
4. _____	UNKNOWN	3.91	380	J
5. _____	UNKNOWN	4.11	140	J
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.29	1600	JN
7. _____	UNKNOWN	5.24	410	J
8. 95-16-9	BENZOTHIAZOLE	7.55	110	JN
9. 112-41-4	1-DODECENE	11.90	670	JN
10. 57-10-3	HEXADECANOIC ACID UNKNOWN	13.88	310	JN
11. _____	UNKNOWN	14.13	130	J
12. 57-10-3	HEXADECANOIC ACID UNKNOWN	14.30	280	JN
13. _____	UNKNOWN AMIDE	15.24	240	J
14. _____	UNKNOWN AMIDE	15.36	370	J
15. _____	UNKNOWN AMIDE	16.47	3400	J
16. 124-26-5	OCTADECANAMIDE	16.60	190	JN
17. _____	UNKNOWN	16.72	1000	J
18. 7773-83-3	1-DOCOSANETHIOL	18.23	190	JN
19. _____	UNKNOWN	21.06	120	J
20. 83-47-6	.GAMMA.-SITOSTEROL	21.54	200	JN
21. _____	UNKNOWN	22.38	120	J
22. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	22.97	3000	JN
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

550

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01T0

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.11

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070722.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 20 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	3.02	7800	JNA DV
2. _____	UNKNOWN	3.91	730	J
3. 22323-82-6	1,3-DIOXOLANE-4-METHANOL, 2,2-DIMET	4.00	240	JN
4. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.37	4900	JN S/W/J
5. _____	UNKNOWN	5.27	600	J
6. _____	UNKNOWN	12.07	470	J
7. 57-10-3	HEXADECANOIC ACID	13.88	450	JN
8. _____	UNKNOWN	14.12	350	J
9. 112-80-1	OLEIC ACID	15.07	600	JN
10. _____	UNKNOWN AMIDE	15.24	360	J
11. _____	UNKNOWN AMIDE	15.35	620	J
12. _____	UNKNOWN AMIDE	16.47	4300	J
13. _____	UNKNOWN	16.72	2500	J
14. 1599-67-3	1-DECOSENE UNKNOWN	17.15	360	JN
15. _____	UNKNOWN	17.82	240	J
16. 1599-67-3	1-DECOSENE UNKNOWN	18.22	650	JN
17. _____	UNKNOWN	18.33	400	J
18. _____	UNKNOWN	21.08	250	J
19. _____	2-HEPTACOSANONE	21.17	360	JN
20. _____	UNKNOWN	21.33	220	J
21. 83-47-6	.GAMMA.-SITOSTEROL	21.55	260	JN
22. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	22.99	11000	JN
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

585

FORM I SV-TIC

OLM04.3

**SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Lab Name: SWL-TULSA

Contract: 68W03024

C01T1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.12

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: J3070723.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 19 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Extraction: (Type) SONC

Number TICS found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4 HYDROXY-4-METHYL	3.02	10000	JNA
2. _____	UNKNOWN	3.10	180	J
3. _____	UNKNOWN	3.78	150	J
4. _____	UNKNOWN	3.91	560	J
5. _____	UNKNOWN	4.22	290	J
6. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.39	7300	JN
7. _____	UNKNOWN	4.72	240	J
8. _____	UNKNOWN	5.21	150	J
9. _____	UNKNOWN	5.28	660	J
10. 95-16-9	BENZOTHIAZOLE	7.55	190	JN
11. 128-37-0	BUTYLATED HYDROXYTOLUENE	10.46	180	JN
12. _____	UNKNOWN	12.08	610	J
13. 57-10-3	HEXADECANOIC ACID	13.87	300	JN
14. _____	UNKNOWN	14.13	640	J
15. 2091-29-4	9-HEXADECENOIC ACID	15.07	290	JN
16. _____	UNKNOWN	15.24	160	J
17. _____	UNKNOWN	15.36	370	J
18. _____	UNKNOWN AMIDE	16.46	1400	J
19. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.72	3600	JN
20. _____	UNKNOWN	18.33	460	J
21. _____	UNKNOWN	20.21	210	J
22. _____	UNKNOWN	20.31	170	J
23. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	22.96	440	JN
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01T2

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.13

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: J3070724.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 18 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/07/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Extraction: (Type) SONC

Number TICS found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. -123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.02	8000	JNA
2. _____	UNKNOWN	3.10	150	J
3. _____	UNKNOWN	3.77	160	J
4. _____	UNKNOWN	3.91	570	J
5. _____	UNKNOWN	4.10	260	J
6. _____	UNKNOWN	4.22	210	J
7. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.35	3200	JN
8. _____	UNKNOWN	4.72	150	J
9. _____	UNKNOWN	5.20	130	J
10. _____	UNKNOWN	5.25	810	J
11. _____	UNKNOWN	6.00	100	J
12. 95-16-9	BENZOTHIAZOLE	7.54	270	JN
13. 57-10-3	HEXADECANOIC ACID UNKNOWN	13.87	200	JN
14. _____	UNKNOWN	14.12	210	J
15. 57-10-3	HEXADECANOIC ACID UNKNOWN	14.30	98	JN
16. 112-88-9	1-OCTADECENE	15.07	180	JN
17. _____	UNKNOWN AMIDE	15.35	120	J
18. _____	UNKNOWN AMIDE	16.47	530	J
19. _____	UNKNOWN	16.71	1300	J
20. _____	UNKNOWN	18.33	160	J
21. _____	UNKNOWN	20.31	110	J
22. _____	UNKNOWN	20.41	120	J
23. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	22.96	130	JN
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

SLW/J3

655

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01T8

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.14

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: J3070813.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 17 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/08/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

Extraction: (Type) SONC

Number TICS found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.97	110	J
2.	123-42-2 2-PENTANONE, 4-HYDROXY-4-METHYL-	3.03	7700	JNA
3.	UNKNOWN	3.12	88	J
4.	UNKNOWN	3.94	420	J
5.	UNKNOWN	4.14	220	J
6.	UNKNOWN	4.25	110	J
7.	111-46-6 ETHANOL, 2,2'-OXYBIS-	4.35	2700	JN
8.	UNKNOWN	5.22	96	J
9.	UNKNOWN	5.28	370	J
10.	UNKNOWN	5.75	130	J
11.	95-16-9 BENZOTHIAZOLE	7.59	110	JN
12.	57-10-3 HEXADECANOIC ACID	13.92	110	JN
13.	UNKNOWN	14.18	250	J
14.	UNKNOWN	15.41	110	J
15.	UNKNOWN AMIDE	16.53	130	J
16.	UNKNOWN	16.78	1500	J
17.	UNKNOWN	18.39	140	J
18.	UNKNOWN	19.34	110	J
19.	UNKNOWN	20.06	98	J
20.	UNKNOWN	20.27	150	J
21.	UNKNOWN	20.38	120	J
22.	UNKNOWN	20.49	90	J
23.	123-28-4 PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.08	140	JN
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01T9

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.15

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: J3070907.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 20 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/09/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Extraction: (Type) SONC

Number TICS found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4 HYDROXY-4-METHYL	3.01	12000	JNA
2. 95-47-6	BENZENE, 1,2-DIMETHYL	3.28	120	JNB
3. _____	UNKNOWN	3.77	150	J
4. _____	UNKNOWN	3.91	610	J
5. _____	UNKNOWN	4.11	230	J
6. _____	UNKNOWN	4.21	120	J
7. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.26	370	JN
8. _____	UNKNOWN	5.23	1000	J
9. 95-16-9	BENZOTHIAZOLE	7.55	.120	JN
10. _____	UNKNOWN	11.17	92	J
11. 57-10-3	HEXADECANOIC ACID	13.88	180	JN
12. 35572-78-2	BENZENAMINE, 2-METHYL-3,5-DINITRO-	14.27	250	JN
13. _____	UNKNOWN AMIDE	15.24	170	J
14. 1120-07-6	NONANAMIDE	15.35	180	JN
15. _____	UNKNOWN	15.82	120	J
16. _____	UNKNOWN AMIDE	16.48	2700	J
17. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS-, DIDO	23.02	11000	JN
18. _____				
19. _____				
20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01W0

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.16

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070815.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 18 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/08/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.03	10000	JNA
2. _____	UNKNOWN	3.93	590	J
3. _____	UNKNOWN	4.14	310	J
4. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.30	940	JN
5. _____	UNKNOWN	5.21	140	J
6. _____	UNKNOWN	5.28	360	J
7. 57-10-3	HEXADECANOIC ACID	13.93	300	JN
8. 108562-66-9	1,5-HEXADIENE, 2,3,3,4,4,5-HEXACHLO	14.32	210	JN
9. 152-58-9	CORTODOXONE	14.43	140	JN
10. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.53	200	JN
11. _____	UNKNOWN	16.71	400	J
12. _____	UNKNOWN	16.78	630	J
13. _____	UNKNOWN	16.92	460	J
14. _____	UNKNOWN	17.15	290	J
15. _____	UNKNOWN	17.85	130	J
16. 481-21-0	CHOLESTANE	19.12	310	JN
17. _____	UNKNOWN	20.39	130	J
18. _____	UNKNOWN	20.80	270	J
19. _____	UNKNOWN	21.30	170	J
20. _____	UNKNOWN	21.43	170	J
21. _____	UNKNOWN	23.07	310	J
22. _____	UNKNOWN	23.24	120	J
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01W1

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52720.23

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J3070219.D

Level: (low/med) LOW

Date Received: 06/25/03

% Moisture: 18 Decanted: (Y/N) N

Date Extracted: 06/26/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/02/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Extraction: (Type) SONC

Number TICS found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	3.08	9700	JNBA
2. _____	UNKNOWN	4.00	300	J
3. _____	UNKNOWN	4.20	630	J
4. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.35	220	JN
5. _____	UNKNOWN	5.36	610	J
6. 072-05-9 1	DECENE UNKNOWN	10.17	210	JN
7. 112-41-4 1	DODECENE	12.04	190	JN
8. 072-05-9 1	DECENE UNKNOWN	12.32	140	JN
9. 57-10-3	HEXADECANOIC ACID	14.00	120	JN
10. _____	UNKNOWN ALDEHYDE	14.44	100	J
11. _____	UNKNOWN AMIDE	16.62	210	J
12. _____	UNKNOWN	19.93	120	J
13. _____	UNKNOWN	20.07	100	J
14. _____	UNKNOWN	20.17	140	J
15. _____	UNKNOWN	20.35	110	J
16. _____	UNKNOWN	20.42	170	J
17. _____	UNKNOWN	20.49	440	J
18. _____	UNKNOWN	20.59	510	J
19. _____	UNKNOWN	20.71	110	J
20. _____	UNKNOWN	21.29	100	J
21. _____	UNKNOWN	21.43	120	J
22. 83-47-6	.GAMMA.-SITOSTEROL	21.77	150	JN
23. 13125-44-5	1,2-DITHIOLANE-3-PROPANOIC ACID	23.26	110	JN
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01X7

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.17

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J3070816.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 25 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/08/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Extraction: (Type) SONC

Number TICS found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	3.02	6900	JNA
2. _____	UNKNOWN	3.94	660	J
3. _____	UNKNOWN	4.14	290	J
4. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.32	2200	JN
5. _____	UNKNOWN	5.21	170	J
6. _____	UNKNOWN	5.28	430	J
7. _____	UNKNOWN	13.06	180	J
8. _____	UNKNOWN	13.38	210	J
9. 2091-29-4	9-HEXADECENOIC ACID	13.82	320	JN
10. 57-10-3	HEXADECANOIC ACID	13.94	640	JN
11. _____	UNKNOWN	14.18	180	J
12. 60-33-3	9,12-OCTADECADIENOIC ACID (Z,Z)-	15.10	300	JN
13. _____	UNKNOWN	15.15	480	J
14. _____	UNKNOWN AMIDE	15.41	220	J
15. _____	UNKNOWN AMIDE	16.52	760	J
16. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.78	1600	JN
17. 36237-66-8	6,10,14-HEXADECATRIEN-1-OL, 3,7,11,	18.98	150	JN
18. 57-88-5	CHOLESTEROL	20.59	900	JN
19. _____	UNKNOWN	20.82	220	J
20. _____	UNKNOWN	21.15	200	J
21. 83-47-6	.GAMMA.-SITOSTEROL	21.63	450	JN
22. 1058-61-3	STIGMASTER-4-EN-3-ONE	22.50	200	JN
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68W03024

C01X8

Lab Code: SWOK Case No.: 31878 SAS No.: SDG No.: C01W1

Matrix: (soil/water) SOIL Lab Sample ID: 52729.18

Sample wt/vol: 30.9 (g/mL) G Lab File ID: J3070908.D

Level: (low/med) LOW Date Received: 06/26/03

% Moisture: 23 Decanted: (Y/N) N Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/09/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y Extraction: (Type) SONC

Number TICS found: 11 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	PENTANONE, 4-HYDROXY-4-METHYL	2.99	6400	JNA
2. _____	UNKNOWN	3.77	100	J
3. _____	UNKNOWN	3.90	500	J
4. _____	UNKNOWN	4.11	120	J
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.28	1400	JN
6. _____	UNKNOWN	5.23	770	J
7. _____	UNKNOWN	7.13	110	J
8. _____	UNKNOWN	14.12	110	J
9. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.47	150	JN
10. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.72	990	JN
11. 57-88-5	CHOLESTEROL	20.53	110	JN
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: SWL-TULSA

Contract: 68W03024

C01Y0

Lab Code: SWOK

Case No.: 31878

SAS No.:

SDG No.: C01W1

Matrix: (soil/water) SOIL

Lab Sample ID: 52729.19

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: J3070818.D

Level: (low/med) LOW

Date Received: 06/26/03

% Moisture: 20 Decanted: (Y/N) N

Date Extracted: 06/27/03

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 07/08/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Extraction: (Type) SONC

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. _____	UNKNOWN	2.97	94	J
2. 423-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	3.02	7700	JNA
3. _____	UNKNOWN	3.94	810	J
4. _____	UNKNOWN	4.14	190	J
5. 111-46-6	ETHANOL, 2,2'-OXYBIS-	4.29	350	JN
6. _____	UNKNOWN	5.28	250	J
7. _____	UNKNOWN	7.17	91	J
8. 57-10-3	HEXADECANOIC ACID	13.93	87	JN
9. 78-51-3	ETHANOL, 2-BUTOXY-, PHOSPHATE (3:1)	16.78	93	JN
10. 57-88-5	CHOLESTEROL	20.59	94	JN
11. _____				
12. _____				
13. _____				
14. _____				
15. _____				
16. _____				
17. _____				
18. _____				
19. _____				
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Appendix D

Chain of Custody Records



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 31878
DAS No: R31657

R

Region:	3	Date Shipped:	6/24/2003	Chain of Custody Record		Sampler Signature:
Project Code:		Carrier Name:	FedEx			
Account Code:	02T03N50102D037ZLA00	Airbill:	840878239320			
CERCLIS ID:	MDD985407196	Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545			
Spill ID:	037Z			1		
Site Name/State:	Eiktor Farm TMRA/MD			2		
Project Leader:	Alex Cox			3		
Action:	Expanded Site Investigation/RI			4		
Sampling Co:	MDE					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01P0	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1446 (Ice Only), 1447 (Ice Only), 1448 (Ice Only), 1449 (Ice Only), 1450 (HCL), 1451 (HCL), 1452 (HCL), 1453 (HCL), 1454 (HCL), 1455 (HCL) (10)	SWT1	S: 6/24/2003 11:10	MC01P0	MS/MSD
C01P1	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1461 (Ice Only), 1462 (Ice Only), 1463 (HCL), 1464 (HCL) (4)	SWT2	S: 6/24/2003 10:15	MC01P1	-
C01P2	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1468 (Ice Only), 1469 (Ice Only), 1470 (HCL), 1471 (HCL) (4)	SWT3	S: 6/24/2003 13:10	MC01P2	-
C01P3	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1475 (Ice Only), 1476 (Ice Only), 1477 (HCL), 1478 (HCL) (4)	SWT4	S: 6/24/2003 9:40	MC01P3	-
C01P4	Surface Water/ Phillip Anderson	L/G	BNA (21), PEST (21), VOA_ (21)	1482 (Ice Only), 1483 (Ice Only), 1484 (HCL), 1485 (HCL) (4)	SWT5	S: 6/24/2003 10:15	MC01P4	WR. off SWT 2
C01P5	Surface Water/ Chris Hartman	L/G	BNA (21), PEST (21), VOA_ (21)	1489 (Ice Only), 1490 (Ice Only), 1491 (HCL), 1492 (HCL) (4)	SWT6	S: 6/24/2003 9:30	MC01P5	
C01P7	Surface Water/ Chris Hartman	L/G	VOA_ (21)	1502 (HCL), 1503 (HCL) (2)	SWT8	S: 6/24/2003 10:10		Trip Blank
C01Q7	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1540 (Ice Only), 1541 (Ice Only), 1542 (Ice Only) (3)	SEDT1	S: 6/24/2003 11:10	MC01Q7	-
C01Q8	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1546 (Ice Only), 1547 (Ice Only), 1548 (Ice Only) (3)	SEDT2	S: 6/24/2003 10:15	MC01Q8	-

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01P0, C01R3	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLID), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-062403-0001

PR provides preliminary results Requests for preliminary results will increase analytical costs.

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 31878
DAS No: R31657

R

Region:	3	Date Shipped:	6/24/2003	Chain of Custody Record		Sampler Signature:	
Project Code:		Carrier Name:	FedEx				
Account Code:	02TC3N50102D037ZLA00	Airbill:	840878239320				
CERCLIS ID:	MDD985407196	Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545				
Spill ID:	037Z			1			
Site Name/State:	Elkton Farm TMRA/MD			2			
Project Leader:	Alex Cox			3			
Action:	Expanded Site Investigation/RI			4			
Sampling Co:	MDE						

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01Q9	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1552 (Ice Only), 1553 (Ice Only), 1554 (Ice Only) (3)	SEDT3	S: 6/24/2003 13:15	MC01Q9	-
C01R0	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1558 (Ice Only), 1559 (Ice Only), 1560 (Ice Only) (3)	SEDT4	S: 6/24/2003 9:40	MC01R0	-
C01R1	Sediment/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1564 (Ice Only), 1565 (Ice Only), 1566 (Ice Only) (3)	SEDT5	S: 6/24/2003 10:15	MC01R1	<i>DUP. OF SEDT2</i>
C01R3	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1576 (Ice Only), 1577 (Ice Only), 1667 (Ice Only), 1668 (Ice Only), 1669 (Ice Only), 1670 (Ice Only), 1671 (Ice Only), 1672 (Ice Only), 1673 (Ice Only) (9)	SST10	S: 6/24/2003 12:26	MC01R3	MS/MSD
C01R4	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1590 (Ice Only), 1591 (Ice Only), 1592 (Ice Only) (3)	SST11	S: 6/24/2003 13:47	MC01R4	-
C01R8	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1614 (Ice Only), 1615 (Ice Only), 1616 (Ice Only) (3)	SST15	S: 6/24/2003 11:40	MC01R8	<i>DUP. OF SST 5</i>
C01R9	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1620 (Ice Only), 1621 (Ice Only), 1622 (Ice Only) (3)	SST2	S: 6/24/2003 9:44	MC01R9	-
C01S0	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1626 (Ice Only), 1627 (Ice Only), 1628 (Ice Only) (3)	SST3	S: 6/24/2003 10:13	MC01S0	-
C01S1	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1632 (Ice Only), 1633 (Ice Only), 1634 (Ice Only) (3)	SST4	S: 6/24/2003 10:52	MC01S1	-

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01P0, C01R3	Additional Sampler Signature(s):	Chain of Custody Seal Number:
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Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDs), VOA_ = CLP TCL Volatiles (AQUEOUS)			

TR Number: 3-592370820-062403-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	31878
DAS No:	R31657

R

Region:	3	Date Shipped:	6/24/2003	Chain of Custody Record		Sampler Signature:
Project Code:		Carrier Name:	FedEx			
Account Code:	02T03N50102D037ZLA00	Airbill:	840878239320	Relinquished By (Date / Time)		Received By (Date / Time)
CERCLIS ID:	MDD985407196	Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	1		
Spill ID:	037Z	2				
Site Name/State:	Eiktor Farm TMRA/MD	3				
Project Leader:	Alex Cox	4				
Action:	Expanded Site Investigation/Ri					
Sampling Co:	MDE					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01S2	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1638 (Ice Only), 1639 (Ice Only), 1640 (Ice Only) (3)	SST5	S: 6/24/2003 11:40	MC01S2	-
C01S6	Subsurface Soil (>12")/ Barbara Brown	L/G	BNA/PEST (21), VOA (21)	1662 (Ice Only), 1663 (Ice Only), 1664 (Ice Only) (3)	SST9	S: 6/24/2003 14:20	MC01S6	-
C01S8	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1689 (Ice Only) (1)	ST10	S: 6/24/2003 12:09	MC01S8	-
C01S9	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1695 (Ice Only) (1)	ST11	S: 6/24/2003 13:42	MC01S9	-
C01T3	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1719 (Ice Only) (1)	ST15	S: 6/24/2003 11:28	MC01T3	Pur. of STS
C01T4	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1725 (Ice Only) (1)	ST2	S: 6/24/2003 9:33	MC01T4	
C01T5	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1731 (Ice Only) (1)	ST3	S: 6/24/2003 10:05	MC01T5	
C01T6	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1737 (Ice Only) (1)	ST4	S: 6/24/2003 10:45	MC01T6	
C01T7	Surface Soil (0"-12")/ Andy Zarins	L/G	BNA/PEST (21)	1743 (Ice Only) (1)	ST5	S: 6/24/2003 11:28	MC01T7	
C01W1	Surface Soil (0"-12")/ Barbara Brown	L/G	BNA/PEST (21)	1767 (Ice Only) (1)	ST9	S: 6/24/2003 14:15	MC01W1	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01P0, C01R3	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLID), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-062403-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 31878
DAS No: R31657

R

Region:	3	Date Shipped:	6/25/2003	Chain of Custody Record		Sampler Signature:
Project Code:		Carrier Name:	FedEx			
Account Code:	02T03N50102D037ZLA00	Airbill:	840878239504			
CERCLIS ID:	MDD985407196	Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545			
Spill ID:	037Z			1		
Site Name/State:	Elkton Farm TMRA/MD			2		
Project Leader:	Alex Cox			3		
Action:	Expanded Site Investigation/RI			4		
Sampling Co:	MDE					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01P6	Surface Water/ Chris Hartman	L/G	BNA (21), PEST (21), VOA_ (21)	1496 (Ice Only), 1497 (Ice Only), 1498 (HCL), 1499 (HCL) (4)	SWT7	S: 6/25/2003 9:00	MC01P6	Field Blank
C01P8	Surface Water/ Chris Hartman	L/G	VOA_ (21)	1504 (HCL), 1505 (HCL) (2)	SWT9	S: 6/25/2003 9:00		Trip Blank
C01P9	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1507 (Ice Only), 1508 (Ice Only), 1509 (HCL), 1510 (HCL) (4)	SWU1	S: 6/25/2003 11:20	MC01P9	--
C01Q0	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1512 (Ice Only), 1513 (Ice Only), 1514 (HCL), 1515 (HCL) (4)	SWU2	S: 6/25/2003 10:45	MC01Q0	--
C01Q2	Surface Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1522 (Ice Only), 1523 (Ice Only), 1524 (HCL), 1525 (HCL) (4)	SWU4	S: 6/25/2003 10:50	MC01Q2	--
C01R2	Subsurface Soil >12"/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1570 (Ice Only), 1571 (Ice Only), 1572 (Ice Only) (3)	SST1	S: 6/25/2003 13:10	MC01R2	--
C01R5	Subsurface Soil >12"/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1596 (Ice Only), 1597 (Ice Only), 1598 (Ice Only) (3)	SST12	S: 6/25/2003 9:40	MC01R5	--
C01R6	Subsurface Soil >12"/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1602 (Ice Only), 1603 (Ice Only), 1604 (Ice Only) (3)	SST13	S: 6/25/2003 10:10	MC01R6	--
C01R7	Subsurface Soil >12"/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1608 (Ice Only), 1609 (Ice Only), 1610 (Ice Only) (3)	SST14	S: 6/25/2003 11:10	MC01R7	--
C01S3	Subsurface Soil >12"/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1644 (Ice Only), 1645 (Ice Only), 1646 (Ice Only) (3)	SST6	S: 6/25/2003 11:32	MC01S3	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01S7	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	C-concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-062503-0003

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 31878
DAS No: R31657

R

Region:	3	Date Shipped:	6/25/2003	Chain of Custody Record		Sampler Signature:
Project Code:		Carrier Name:	FedEx			
Account Code:	02T03N50102D037ZLA00	Airbill:	840878239504			
CERCLIS ID:	MDD915407196	Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545			
Spill ID:	0372			1		
Site Name/State:	Elkton Farm TMRA/MD			2		
Project Leader:	Alex Cox			3		
Action:	Expanded Site Investigation/RI			4		
Sampling Co:	MDE					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01S4	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1650 (Ice Only), 1651 (Ice Only), 1652 (Ice Only) (3)	SST7	S: 6/25/2003 11:57	MC01S4	-
C01S5	Subsurface Soil (>12")/ Andy Zarins	L/G	BNA/PEST (21), VOA (21)	1656 (Ice Only), 1657 (Ice Only), 1658 (Ice Only) (3)	SST8	S: 6/25/2003 10:40	MC01S5	-
C01S7	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1675 (Ice Only), 1676 (Ice Only), 1677 (Ice Only), 1678 (Ice Only), 1679 (Ice Only), 1680 (Ice Only), 1681 (Ice Only), 1682 (Ice Only), 1683 (Ice Only) (9)	ST1	S: 6/25/2003 13:05	MC01S7	MS/MSD
C01T0	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21)	1701 (Ice Only) (1)	ST12	S: 6/25/2003 9:35	MC01T0	-
C01T1	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21)	1707 (Ice Only) (1)	ST13	S: 6/25/2003 10:05	MC01T1	-
C01T2	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21)	1713 (Ice Only) (1)	ST14	S: 6/25/2003 11:05	MC01T2	-
C01T8	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21)	1749 (Ice Only) (1)	ST6	S: 6/25/2003 11:27	MC01T8	-
C01T9	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21)	1755 (Ice Only) (1)	ST7	S: 6/25/2003 11:52	MC01T9	-
C01W0	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21)	1761 (Ice Only) (1)	ST8	S: 6/25/2003 10:35	MC01W0	-

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01S7	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLID/S), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-062503-0003

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 31878
DAS No: R31657

R

Region: 3		Date Shipped: 6/25/2003	Chain of Custody Record		Sampler Signature:
Project Code:	Carrier Name: FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)
Account Code: 02T03N50102D037ZLA00	Airbill: 840878239504	1			
CERCLIS ID: MDD935407196	Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	2			
Spill ID: 037Z		3			
Site Name/State: Elkton Farm TMRA/MD		4			
Project Leader: Alex Cox					
Action: Expanded Site Investigation/RI					
Sampling Co: MDE					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01X7	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1803 (Ice Only), 1804 (Ice Only), 1805 (Ice Only) (3)	SEDU1	S: 6/25/2003 11:25	MC01X7	-
C01X8	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1807 (Ice Only), 1808 (Ice Only), 1809 (Ice Only) (3)	SEDU2	S: 6/25/2003 10:55	MC01X8	-
C01Y0	Sediment/ Dixon Wood	L/G	BNA/PEST (21), VOA (21)	1815 (Ice Only), 1816 (Ice Only), 1817 (Ice Only) (3)	SEDU4	S: 6/25/2003 11:00	MC01Y0	Dup. of SEDU2

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01S7	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-062503-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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Organic Traffic Report & Chain of Custody Record

Case No: 31878
DAS No: R31657

R

Region:	3	Date Shipped:	6/26/2003	Chain of Custody Record		Sampler Signature:
Project Code:		Carrier Name:	FedEx			
Account Code:	02T03N50102D037ZLA00	Airbill:	840878239467			
CERCLIS ID:	MDD9t5407196	Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012/ (918) 251-0545			
Spill ID:	037Z			1		
Site Name/State:	Elkton Farm TMRA/MD			2		
Project Leader:	Alex Cox			3		
Action:	Expanded Site Investigation/RI			4		
Sampling Co:	MDE					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C01N1	Ground Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1394 (Ice Only), 1395 (Ice Only), 1396 (Ice Only), 1397 (Ice Only), 1398 (HCL), 1399 (HCL), 1400 (HCL), 1401 (HCL), 1402 (HCL), 1403 (HCL) (10)	GWD1	S: 6/26/2003 12:45	MC01N1	MS/MSD
C01N2	Ground Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1405 (Ice Only), 1406 (Ice Only), 1407 (HCL), 1408 (HCL) (4)	GWU1	S: 6/26/2003 10:35	MC01N2	-
C01N3	Ground Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1410 (Ice Only), 1411 (Ice Only), 1412 (HCL), 1413 (HCL) (4)	GWU2	S: 6/26/2003 10:00	MC01N3	-
C01N4	Ground Water/ Dixon Wood	L/G	BNA (21), PEST (21), VOA_ (21)	1415 (Ice Only), 1416 (Ice Only), 1417 (HCL), 1418 (HCL) (4)	GWU3	S: 6/26/2003 11:10	MC01N4	-
C01N7	Ground Water/ Chris Hartman	L/G	VOA_ (21)	1432 (HCL), 1433 (HCL) (2)	GWU6	S: 6/26/2003 11:20		Trip Blank
C01N8	Ground Water/ Chris Hartman	L/G	BNA (21), PEST (21), VOA_ (21)	1435 (Ice Only), 1436 (Ice Only), 1437 (HCL), 1438 (HCL) (4)	GWU7	S: 6/26/2003 10:30	MC01N8	Field BLANK per memo 8/15/03 D.V.

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C01N1	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-062603-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

REGION COPY

U.S. EPA Region III Sample Scheduling Request Form

RAS CASE No: CT1854 /31878		DAS No:		NSF No:	
Date: 6/18/03	Data Validation Level: M3, IM2			EPA Lab Reply:	
Site Name: Elkton Farm				QAPP/SAP Info :	
Address: 183 Zeitler Road			City: Elkton		State: Maryland
Latitude:		Longitude:		Anal +Val Data TAT: 45 DAYS	
Program: CERCLA		CERCLIS No: MDD985407196		Activity: SI	
Account No: 03T03N50102D037ZLA00		Operable Unit:		Spill ID:	
Preparer: Chris Hartman		RPM/PO:Lorie Baker		Site Leader: Alex Cox	
Phone: 410-537-3453		Phone: 215-814-3355		Phone: 410-537-3493	
FAX: 410-537-3472		FAX:		FAX: 410-537-3472	
E-mail: chartman@mde.state.md.us		E-mail:		E-mail: acox@mde.state.md.us	
EPA CO:		Contract Type:	Prime: MDE	Sub:	
Lab Assignment Date:		Analytical TAT: 21 Days		Ship Date From: 6/23/03	
Organic Lab:		Ship Date To: 6/27/03			
Inorganic Lab:		Carrier:			
SAMPLES	METHOD	PARAMETER			MATRIX
23	OLM04.3	TCL			AQ
4	OLM04.3	VOC			AQ
23	ILM05.2	ICP-AES TM+CN+HG			AQ
9	ILM05.2	ICP-AES TAL (DM)			AQ
55	OLM04.3	TCL			SOLID
55	ILM05.2	ICP-AES TM+CN+HG			SOLID
<p>Notes:</p> <ol style="list-style-type: none"> 1. Quantitation Limits and Quality Control requirements other than those specified in the method or SOW must be included on separate sheet. 2. QC filed samples must be included as part of the total number of samples. 3. Data validation levels M3 and IM2 require justification. 					

Special Instructions: ENCORES - 24 SOLIDS SAMPLES. PLEASE SEND THE ELECTRONIC DATA ASAP.



Chris Hartman
<CHartman@mde.state
.md.us>

08/15/2003 09:02 AM

To: Lisa Penix/ESC/R3/USEPA/US@EPA
cc: Alex Cox <mcox@mde.state.md.us>
Subject: Re: 31878 - Elkton Farm

Yes, MC01N8 (C01N8) was a field blank. Additionally, MC01M8 was also a field blank and Sample C01N7 was a trip blank.

Chris Hartman, Geologist
Maryland Department of the Environment
Environmental Restoration and Redevelopment Program
Site and Brownfields Assessment Team

>>> <Penix.Lisa@epamail.epa.gov> 08/15/03 07:48AM >>>
Hi Chris,

The validator had a quick question. Is sample MC01N8 a field blank?
Please let me know and I will pass that on to the validator.

THANKS!

Lisa D. Penix
ESAT RSCC
Lockheed Martin Environmental Services
EPA Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755
Telephone (410) 305 - 3020
Telefax (410) 305 - 3095
email: Penix.Lisa@epamail.epa.gov

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<<<GWIASIG 0.07>>>

Appendix E

Laboratory Case Narratives

**SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A / Broken Arrow, OK 74012
918-251-2858**

SDG NARRATIVE

July 15, 2003

CONTRACT NO.: 68W03024

CASE NO.: 31878

SAMPLE NOS.: C01P0, C01P0MS, C01P0MSD, C01P1, C01P2, C01P3, C01P4, C01P5, C01P6, C01P7, C01P8,
C01P9, C01Q0, C01Q2, C01N1, C01N2, C01N3, C01N4, C01N7, C01N8

SDG NO.: C01P0

VOLATILE FRACTION

Eighteen water samples plus MS/MSD were submitted for Volatile Organic Analysis. The samples were analyzed by GC/MS following the OLM04.3 CLP Statement of Work with a 25ml purge.

Alternate columns used for the analysis of volatile compounds by Method OLM04.3 are the Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 1um film thickness (Restek #12253) and the DB624, 75m, 0.53mmID Megabore, 3um film thickness (J&W 125-1374).

Alternate traps used for the analysis of volatile compounds by method OLM04.3 are the Supelco Vocabr 3000 (Carbopack B-10cm, Carboxen 1000-6cm, Carboxen 1001-1cm) and the Tekmar #2 (Tenax-15cm, silica gel-7.5cm).

No significant problems occurred during the analyses of these samples.

Blanks: There were no target analytes detected in the blanks.

Surrogates: All surrogates were within QC recovery limits.

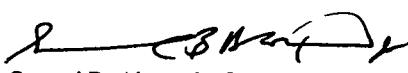
Matrix Spikes: Samples C01P0MS and C01P0MSD each contained one compound outside QC recovery limits. All compounds were within their RPD limits.

Internal Standards: All internal standard areas were within QC recovery limits.

A manual integration report is included with each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration.

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his/her designee, as verified by the following signature.


Samuel B. Alexander Jr.
Volatiles Laboratory Supervisor

July 15, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858
SDG NARRATIVE
July 10, 2003

CONTRACT: 68W03024
CASE NO: 31878
SDG NO: C01P0
SAMPLES: C01P0, C01P0MS, C01P0MSD, C01P1, C01P2, C01P3, C01P4, C01P5, C01P6, C01P9, C01Q0, C01Q2, C01N1, C01N2, C01N3, C01N4, and C01N8.

SEMIVOLATILE FRACTION

Fifteen water samples plus MS/MSD were submitted for semivolatile organic analyses. The samples were analyzed by GC/MS following the OLM04.3 CLP Organic Statement of Work.

The following column is used for the semivolatile analysis: Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 0.25um film thickness (Restek #12223).

No significant problems were encountered during the extraction or analysis of these samples: Multiple QC was designated in this SDG. The lab chose which QC would be used (see e-mail).

Sample coolers arrived at 4.3, 5.1, 5.7, 7.1, 8.6 degrees Celsius. PE arrived in a cardboard box. Note: All cooler temperatures are taken with a ISO 9001 certified RayTek Model # 3MC11 infra-red (IR) temperature detector using the cooler temperature blanks when submitted with the samples. The DC-1 forms indicate which samples if any did not have cooler temperature blanks submitted, in these cases, the temperature is taken from a random sample within the cooler.

The following samples had alkanes reported and the reports are included at the end of this SDG Narrative: C01N4.

Blanks: SBLK1 and SBLK2 had low level phthalate contamination detected below CRQL.

Surrogates: All surrogate recoveries were within QC limits with the following exception: Sample C01N2 had low recovery for 2-Fluorobiphenyl at 38%.

Matrix Spike: All matrix spike compounds were within QC recovery limits with one exception: Sample C01P0MSD had high recovery for 4-Nitrophenol at 92%.

Internal standards: All internal standard responses were within QC limits.

NOTE: A manual integration report is included for each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration.

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his/her designee, as verified by the following signature.



Diana L. Hoke
Organic Program Manager

July 10, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858
SDG NARRATIVE
July 16, 2003

CONTRACT: 68W03024
CASE NO: 31878
SDG NO: C01P0
SAMPLES: C01P0, C01P0MS, C01P0MSD, C01P1, C01P2, C01P3, C01P4, C01P5, C01P6, C01P9,
C01Q0, C01Q2, C01N1, C01N2, C01N3, C01N4, and C01N8.
FRACTION: Pesticide/PCB

Fifteen water samples plus MS/MSD were analyzed for Pesticides/PCBs, by EPA SOW OLM04.3.

Columns: The samples were analyzed on dual analytical columns, DB-17 / DB-1701 (length 30m, id 0.32 mm, film thickness 0.25 um) columns were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns and they are kept on site. Helium was used as the carrier gas for all sample analyses.

Note: Many environmental samples can cause analysis problems due to interference peaks in the sample chromatograms along with degrading instrument performance. It should be noted that when large numbers of "interference" peaks and/or multi-response targets are present in a sample, false positives of single response compounds are common. Since ECD detection is not a definitive means of detection, single-response analytes in the presence of interference are reported per the method (if a peak is within a target analyte's retention time window on both columns, then it is reported as that target analyte). This lessens the possibility that false negative results will be reported. However, this may lead to false positives. The end data user should be aware of the limitations of the method and take appropriate care.

No major problems occurred with the extraction or analysis of these samples.

GPC Check: No GPC with water samples.

Florisil Check: All recoveries were within QC limits.

Samples were sulfur cleaned.

Retention Times: All retention times were within method acceptance criteria.

Resolution Checks: All Resolution Checks were within method acceptance criteria.

Breakdown Products: All Breakdown products were within method acceptance criteria with the following exceptions: Percent breakdown of Endrin was greater than 20.0% in PEM6C analyzed on 07/05/03 at 0458Hrs and PEM6D analyzed on 07/05/03 at 0532Hrs on one column.

Initial Calibrations: All components within method acceptance criteria.

Calibration Verifications: All components within method acceptance criteria.

Blanks: PBLKWB and PBLKWC had low level target contamination detected below CRQL.

Surrogates: All surrogates were within QC recovery limits.

Matrix Spikes: All matrix spikes were within QC recovery limits.

The following tables list the total nanograms injected on column for each calibration standard based upon amount injected, 0.5 μ L, 1 μ L, or 2 μ L. Note: All calibration and sample analyses are done using 1 μ l injected and split on to two columns. Therefore amount on each column is 0.5 uL injected.

RESOLUTION CHECK

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
gamma-Chlordane	0.005	0.01	0.02
Endosulfan I	0.005	0.01	0.02
4,4'-DDE	0.01	0.02	0.04
Dieldrin	0.01	0.02	0.04
Endosulfan Sulfate	0.01	0.02	0.04
Endrin Ketone	0.01	0.02	0.04
Methoxychlor	0.5	0.1	0.2
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

PERFORMANCE EVALUATION

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
gamma-BHC	0.005	0.01	0.02
alpha-BHC	0.005	0.01	0.02
4,4'-DDT	0.05	0.1	0.2
beta-BHC	0.005	0.01	0.02
Endrin	0.025	0.05	0.1
Methoxychlor	0.125	0.25	0.5
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

INDIVIDUAL STANDARD MIXTURE A – LOW

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
alpha-BHC	0.0025	0.005	0.01
Heptachlor	0.0025	0.005	0.01
gamma-BHC	0.0025	0.005	0.01
Endosulfan I	0.0025	0.005	0.01
Dieldrin	0.005	0.01	0.02
Endrin	0.005	0.01	0.02
4,4'-DDD	0.005	0.01	0.02
4,4'-DDT	0.005	0.01	0.02
Methoxychlor	0.025	0.05	0.1
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE B -- LOW

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.0025	0.005	0.01
delta-BHC	0.0025	0.005	0.01
Aldrin	0.0025	0.005	0.01
Heptachlor epoxide	0.0025	0.005	0.01
alpha-Chlordane	0.0025	0.005	0.01
gamma-Chlordane	0.0025	0.005	0.01
4,4'-DDE	0.005	0.01	0.02
Endosulfan sulfate	0.005	0.01	0.02
Endrin aldehyde	0.005	0.01	0.02
Endrin ketone	0.005	0.01	0.02
Endosulfan II	0.005	0.01	0.02
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE A -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.01	0.02	0.04
Heptachlor	0.01	0.02	0.04
gamma-BHC	0.01	0.02	0.04
Endosulfan I	0.01	0.02	0.04
Dieldrin	0.02	0.04	0.08
Endrin	0.02	0.04	0.08
4,4'-DDD	0.02	0.04	0.08
4,4'-DDT	0.02	0.04	0.08
Methoxychlor	0.1	0.2	0.4
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE B -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.01	0.02	0.04
delta-BHC	0.01	0.02	0.04
Aldrin	0.01	0.02	0.04
Heptachlor epoxide	0.01	0.02	0.04
alpha-Chlordane	0.01	0.02	0.04
gamma-Chlordane	0.01	0.02	0.04
4,4'-DDE	0.02	0.04	0.08
Endosulfan sulfate	0.02	0.04	0.08
Endrin aldehyde	0.02	0.04	0.08
Endrin ketone	0.02	0.04	0.08
Endosulfan II	0.02	0.04	0.08
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE A -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.04	0.08	0.16
Heptachlor	0.04	0.08	0.16
gamma-BHC	0.04	0.08	0.16
Endosulfan I	0.04	0.08	0.16
Dieldrin	0.08	0.16	0.32
Endrin	0.08	0.16	0.32
4,4'-DDD	0.08	0.16	0.32
4,4'-DDT	0.08	0.16	0.32
Methoxychlor	0.4	0.8	1.6
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

INDIVIDUAL STANDARD MIXTURE B -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.04	0.08	0.16
delta-BHC	0.04	0.08	0.16
Aldrin	0.04	0.08	0.16
Heptachlor epoxide	0.04	0.08	0.16
alpha-Chlordane	0.04	0.08	0.16
gamma-Chlordane	0.04	0.08	0.16
4,4'-DDE	0.08	0.16	0.32
Endosulfan sulfate	0.08	0.16	0.32
Endrin aldehyde	0.08	0.16	0.32
Endrin ketone	0.08	0.16	0.32
Endosulfan II	0.08	0.16	0.32
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

MULTI-RESPONSE STANDARD MIXTURES

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
Aroclor-1016	0.05	0.1	0.2
Aroclor-1221	0.1	0.2	0.4
Aroclor-1232	0.05	0.1	0.2
Aroclor-1242	0.05	0.1	0.2
Aroclor-1248	0.05	0.1	0.2
Aroclor-1254	0.05	0.1	0.2
Aroclor-1260	0.05	0.1	0.2
Toxaphene	0.25	0.5	1.0

Note: A manual integration report is included for each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Diana L. Hoke

Organic Program Manager

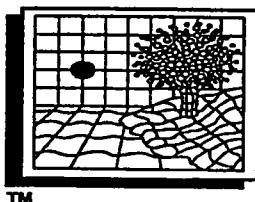
July 16, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/02/03 DATA FILE: J3070120.D

SAMPLE ID: C01N4 MATRIX: WATER
LAB ID: 52743.04 DATE ANALYZED: 07/01/03

CAS #	COMPOUND	RT	EST. CONC (ug/L)
1) 001638-26-2	CYCLOPENTANE, 1,1-DIMETHYL-	5.12	2



VOLATILES GC/MS pH FORM---EPA

Ref: SWL-OV-101, Rev. 2.0

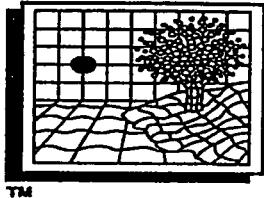
Form ID: QV-101-pHEPA-F

Location/File ID: OCFORMS ON "SWLQ" ORGANICS\BHEBA.DOC

CASE _____

SDG# _____

COMMENTS: _____



VOLATILES GC/MS pH FORM---EPA

Ref: SWL-OV-101, Rev. 2.0

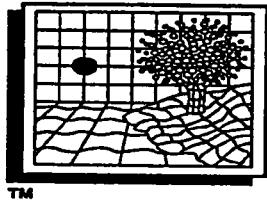
Form ID: OV-101-pHEPA-F

Location/File ID: QCFORMS ON 'SWLO'\ORGANICS\PHEPA.DOC

CASE _____

SDG# _____

COMMENTS:



VOLATILES GC/MS pH FORM---EPA

Ref: SWL-OV-101, Rev. 2.0

Form ID: OV-101-pHEPA-F

Location/File ID: QCFORMS ON 'SWLO' ORGANICS\PHEPA.DOC

CASE _____

SDG# _____

LAB ID	CLIENT SAMPLE ID	pH	ANALYST	DATE TESTED
S22743.01	COIN1	<2	LD	7/07/03
.02	COIN2	<2		
.03	COIN3	<2		
.04	COIN4	<2		
.05	COIN7	<2		
.06	COIN8	<2		
7/07/03 DS				

COMMENTS:

To: [Betty Jeffery/ESC/R3/USEPA/US@EPA](mailto:Betty.Jeffery@epa.gov), [Dan Slizys/ESC/R3/USEPA/US@EPA](mailto:Dan.Slizys@epa.gov),
[John Kwedar/ESC/R3/USEPA/US@EPA](mailto:John.Kwedar@epa.gov), [Khin-Cho
Thaung/ESC/R3/USEPA/US@EPA](mailto:Khin.Cho.Thaung@epa.gov)
cc:
Subject: NEW ISSUE | Case 31878 | Lab SWOK | Issue Insufficient volume
06/27/2003 10:16 AM

Following is an email from SWOK regarding insufficient sample volume for the ENCORE samples for Case 31878. The lab received 3 vials for sample C01R9. Two of the vials were only half full and the third vial was empty. There was no soil in the ENCORE sampler. The lab states that they ran the first vial at low level, but medium level was required.

Please advise on how the lab should proceed.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3, 7, & 9
703-264-9526
holly.sturdavant@dynCorp.com or holly.rogers@dynCorp.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----

From: DHoke@swlab.com [mailto:DHoke@swlab.com]
Sent: Thursday, June 26, 2003 5:40 PM
To: Sturdavant, Holly
Subject: Region 3| Case 31878| Sample promblem

Hi Holly,

For record of communication:

Sample C01R9 was an Encore sample with three vials. Two of the vials were only ½ the required sample volume (2 grams instead of 4 grams). The third vial was empty, there was no soil in the Encore sampler. The 1st vial was run low level and required medium level.

Thank you,
Diana L. Hoke
Organic Program Manager
Southwest Laboratories of Oklahoma
(918)251-2858 e-mail dhoke@swlab.com

Diana Hoke

From: Sturdavant, Holly [Holly.Sturdavant@dynCorp.com]
Sent: Friday, June 27, 2003 11:04 AM
To: Diana Hoke (E-mail); Steve Markham (E-mail)
Cc: Betty Ann Jeffery (E-mail); Dan Slizys (E-mail); John Kwedar (E-mail); Khin-Cho Thaung (E-mail)
Subject: Region 03 | Case 31878 | Lab SWOK | Issue Insufficient volume | FINAL

Diana,

Following is the resolution from Region 3 regarding the insufficient ENCORE volume for Case 31878, sample C01R9. Per the Region, the lab will document the issue in the Case/SDG Narrative and proceed with the analysis of the samples. The lab will report the estimated results for sample C01R9.

Please let me know if you have any other questions or problems.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3, 7, & 9
703-264-9526
holly.sturdavant@dynCorp.com or holly.rogers@dynCorp.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----

From: slizys.dan@epamail.epa.gov [mailto:slizys.dan@epamail.epa.gov]
Sent: Friday, June 27, 2003 11:13 AM
To: Sturdavant, Holly; Baker.Lorie@epamail.epa.gov; chartman@mde.state.md.us; acox@mde.state.md.us
Cc: Betty Ann Jeffery (E-mail); John Kwedar (E-mail); Khin-Cho Thaung (E-mail)
Subject: Re: NEW ISSUE | Case 31878 | Lab SWOK | Issue Insufficient volume

Holly,

The lab should document the issue in the case narrative and report estimated results for sample C01R9.

I will contact the field personnel and report that they did not provide sufficient quantity of sample for complete VOC analysis. I will also send them our regional fact sheet which describes the amount of sample to be sent to the lab.

Chris and Alex,

The lab has reported that insufficient sample was provided for complete analysis for sample C01R9. I will attach a regional fact sheet which describes the amount of sample that should be provided. Will you re-sample this sample site? Please reply to all parties.

From: "Sturdavant, Holly"<Holly.Sturdavant@dynCorp.com>

**SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A / Broken Arrow, OK 74012
918-251-2858**

SDG NARRATIVE

July 11, 2003

CONTRACT NO.: 68W03024

CASE NO.: 31878

SAMPLE NOS.: C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R3MS, C01R3MSD, C01R4, C01R8, C01R9,
C01S0, C01S1, C01S2, C01S6,

SDG NO.: C01Q7

VOLATILE FRACTION

Thirteen soil samples plus MS/MSD were submitted for Volatile Organic Analysis. The samples were analyzed by GC/MS following the OLM04.3 CLP Statement of Work.

Alternate columns used for the analysis of volatile compounds by Method OLM04.3 are the Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 1um film thickness (Restek #12253) and the DB624, 75m, 0.53mmID Megabore, 3um film thickness (J&W 125-1374).

Alternate traps used for the analysis of volatile compounds by method OLM04.3 are the Supelco Vocabr 3000 (Carbopack B-10cm, Carboxen 1000-6cm, Carboxen 1001-1cm) and the Tekmar #2 (Tenax-15cm, silica gel-7.5cm).

No significant problems occurred during the analyses of these samples.

Blanks: VBLK1 and VBLK2 each contained low level methylene chloride contamination less than the CRQL.

Surrogates: All surrogates were within QC recovery limits.

Matrix Spikes: Samples C01R3MS and C01R3MSD each contained two compounds outside QC recovery limits. All compounds were within their RPD limits.

Internal Standards: All internal standard areas were within QC recovery limits.

A manual integration report is included with each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his/her designee, as verified by the following signature.


Samuel B. Alexander Jr.
Volatile Department Supervisor

July 11, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858
SDG NARRATIVE
July 11, 2003

CONTRACT: 68W03024
CASE NO: 31878
SDG NO: C01Q7
SAMPLES: C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R3MS, C01R3MSD, C01R4, C01R8, C01R9, C01S0, C01S1, C01S2, C01S6, C01S8, C01S9, C01T3, C01T4, C01T5, C01T6, C01T7.

SEMIVOLATILE FRACTION

Twenty soil samples plus MS/MSD were submitted for semivolatile organic analyses. The samples were analyzed by GC/MS following the OLM04.3 CLP Organic Statement of Work.

The following column is used for the semivolatile analysis: Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 0.25um film thickness (Restek #12223).

No significant problems were encountered during the extraction or analysis of these samples: Sample C01R9 arrived with insufficient Encore volume (see e-mail).

Sample coolers arrived at 4.3 degrees Celsius. Note: All cooler temperatures are taken with a ISO 9001 certified RayTek Model # 3MC11 infra-red (IR) temperature detector using the cooler temperature blanks when submitted with the samples. The DC-1 forms indicate which samples if any did not have cooler temperature blanks submitted, in these cases, the temperature is taken from a random sample within the cooler.

The following samples had alkanes reported and the reports are included at the end of this SDG Narrative: C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R4, C01R8, C01R9, C01S0, C01S1, C01S2, C01S6, C01S8, C01S9, C01T3, C01T4, C01T5, C01T6, C01T7, SBLK1.

Blinks: No target contamination detected.

Surrogates: All surrogate recoveries were within QC limits.

Matrix Spike: All matrix spike compounds were within QC recovery limits.

Internal standards: All internal standard responses were within QC limits.

NOTE: A manual integration report is included for each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration.

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his/her designee, as verified by the following signature.



Diana L. Hoke
Organic Program Manager

July 11, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858
SDG NARRATIVE
July 15, 2003

CONTRACT: 68W03024
CASE NO: 31878
SDG NO: C01Q7
SAMPLES: C01Q7, C01Q8, C01Q9, C01R0, C01R1, C01R3, C01R3MS, C01R3MSD, C01R4, C01R8, C01R9, C01S0, C01S1, C01S2, C01S6, C01S8, C01S9, C01T3, C01T4, C01T5, C01T6, and C01T7.
FRACTION: Pesticide/PCB

Twenty soil samples plus MS/MSD were analyzed for Pesticides/PCBs, by EPA SOW OLM04.3.

Columns: The samples were analyzed on dual analytical columns, CLP-PESTI /CLP-PESTII (length 30m, id 0.32 mm, film thickness 0.25 um) columns were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns and they are kept on site. Helium was used as the carrier gas for all sample analyses.

Note: Many environmental samples can cause analysis problems due to interference peaks in the sample chromatograms along with degrading instrument performance. It should be noted that when large numbers of "interference" peaks and/or multi-response targets are present in a sample, false positives of single response compounds are common. Since ECD detection is not a definitive means of detection, single-response analytes in the presence of interference are reported per the method (if a peak is within a target analyte's retention time window on both columns, then it is reported as that target analyte). This lessens the possibility that false negative results will be reported. However, this may lead to false positives. The end data user should be aware of the limitations of the method and take appropriate care.

No major problems occurred with the extraction or analysis of these samples. Note: Samples C01R8, C01S0, C01S2, C01T5, and C01T7 contained a contamination peak in the Retention time of Heptachlor on the front column resulting in concentrations for Heptachlor ranging from 30.9ug/kg to 2081ug/kg compared to 1.528ug/kg to 2.353ug/kg on the back column. No dilution was analyzed since there was such a large discrepancy between the two columns Heptachlor is not confirmed. A dilution would dilute out Heptachlor and the reported value would be non-detect.

GPC Check: All recoveries within QC limits.

Florisil Check: All recoveries were within QC limits.

Samples were sulfur cleaned.

Retention Times: All retention times were within method acceptance criteria.

Resolution Checks: All Resolution Checks were within method acceptance criteria.

Breakdown Products: All Breakdown products were within method acceptance criteria.

Initial Calibrations: All components within method acceptance criteria.

Calibration Verifications: All components within method acceptance criteria with one slight exception: Percent difference value of 4,4'DDT in PEMCT analyzed on 6/29/03 at 1758Hrs was 26.0%.

Blanks: PBLKSB contained low level Heptachlor contamination above CRQL on one column at 3.3ug/kg and below CRQL on one column at 0.76ug/kg.

Surrogates: All surrogates were within QC recovery limits.

Matrix Spikes: All matrix spikes were within QC recovery limits.

The following tables list the total nanograms injected on column for each calibration standard based upon amount injected, 0.5 μ L, 1 μ L, or 2 μ L. Note: All calibration and sample analyses are done using 1 μ l injected and split on to two columns. Therefore amount on each column is 0.5 μ L injected.

RESOLUTION CHECK

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
gamma-Chlordane	0.005	0.01	0.02
Endosulfan I	0.005	0.01	0.02
4,4'-DDE	0.01	0.02	0.04
Dieldrin	0.01	0.02	0.04
Endosulfan Sulfate	0.01	0.02	0.04
Endrin Ketone	0.01	0.02	0.04
Methoxychlor	0.5	0.1	0.2
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

PERFORMANCE EVALUATION

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
gamma-BHC	0.005	0.01	0.02
alpha-BHC	0.005	0.01	0.02
4,4'-DDT	0.05	0.1	.02
beta-BHC	0.005	0.01	0.02
Endrin	0.025	0.05	0.1
Methoxychlor	0.125	0.25	0.5
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

INDIVIDUAL STANDARD MIXTURE A -- LOW

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
alpha-BHC	0.0025	0.005	0.01
Heptachlor	0.0025	0.005	0.01
gamma-BHC	0.0025	0.005	0.01
Endosulfan I	0.0025	0.005	0.01
Dieldrin	0.005	0.01	0.02
Endrin	0.005	0.01	0.02
4,4'-DDD	0.005	0.01	0.02
4,4'-DDT	0.005	0.01	0.02
Methoxychlor	0.025	0.05	0.1
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE B -- LOW

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.0025	0.005	0.01
delta-BHC	0.0025	0.005	0.01
Aldrin	0.0025	0.005	0.01
Heptachlor epoxide	0.0025	0.005	0.01
alpha-Chlordane	0.0025	0.005	0.01
gamma-Chlordane	0.0025	0.005	0.01
4,4'-DDE	0.005	0.01	0.02
Endosulfan sulfate	0.005	0.01	0.02
Endrin aldehyde	0.005	0.01	0.02
Endrin ketone	0.005	0.01	0.02
Endosulfan II	0.005	0.01	0.02
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE A -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.01	0.02	0.04
Heptachlor	0.01	0.02	0.04
gamma-BHC	0.01	0.02	0.04
Endosulfan I	0.01	0.02	0.04
Dieldrin	0.02	0.04	0.08
Endrin	0.02	0.04	0.08
4,4'-DDD	0.02	0.04	0.08
4,4'-DDT	0.02	0.04	0.08
Methoxychlor	0.1	0.2	0.4
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE B -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.01	0.02	0.04
delta-BHC	0.01	0.02	0.04
Aldrin	0.01	0.02	0.04
Heptachlor epoxide	0.01	0.02	0.04
alpha-Chlordane	0.01	0.02	0.04
gamma-Chlordane	0.01	0.02	0.04
4,4'-DDE	0.02	0.04	0.08
Endosulfan sulfate	0.02	0.04	0.08
Endrin aldehyde	0.02	0.04	0.08
Endrin ketone	0.02	0.04	0.08
Endosulfan II	0.02	0.04	0.08
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE A -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.04	0.08	0.16
Heptachlor	0.04	0.08	0.16
gamma-BHC	0.04	0.08	0.16
Endosulfan I	0.04	0.08	0.16
Dieldrin	0.08	0.16	0.32
Endrin	0.08	0.16	0.32
4,4'-DDD	0.08	0.16	0.32
4,4'-DDT	0.08	0.16	0.32
Methoxychlor	0.4	0.8	1.6
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

INDIVIDUAL STANDARD MIXTURE B -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.04	0.08	0.16
delta-BHC	0.04	0.08	0.16
Aldrin	0.04	0.08	0.16
Heptachlor epoxide	0.04	0.08	0.16
alpha-Chlordane	0.04	0.08	0.16
gamma-Chlordane	0.04	0.08	0.16
4,4'-DDE	0.08	0.16	0.32
Endosulfan sulfate	0.08	0.16	0.32
Endrin aldehyde	0.08	0.16	0.32
Endrin ketone	0.08	0.16	0.32
Endosulfan II	0.08	0.16	0.32
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

MULTI-RESPONSE STANDARD MIXTURES

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
Aroclor-1016	0.05	0.1	0.2
Aroclor-1221	0.1	0.2	0.4
Aroclor-1232	0.05	0.1	0.2
Aroclor-1242	0.05	0.1	0.2
Aroclor-1248	0.05	0.1	0.2
Aroclor-1254	0.05	0.1	0.2
Aroclor-1260	0.05	0.1	0.2
Toxaphene	0.25	0.5	1.0

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Diana L. Hoke

Organic Program Manager

July 15, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03

DATA FILE: J3070220.D

SAMPLE ID: C01Q7
LAB ID: 52720.01

MATRIX: SOIL
DATE ANALYZED: 07/02/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.99	491
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	336
3) 003221-61-2	OCTANE, 2-METHYL-	3.30	169
4) 000619-99-8	HEXANE, 3-ETHYL-	4.00	596
5) 055521-27-2	CYCLOHEXANE, 1-(1-TETRADECYLPENTADE	20.42	89

7/9/03
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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03 DATA FILE: J3070221.D

SAMPLE ID: C01Q8 MATRIX: SOIL
LAB ID: 52720.02 DATE ANALYZED: 07/02/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
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1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	3.00	369
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	251
3) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.30	121
4) 000291-64-5	CYCLOHEPTANE	12.32	92
5) 001560-92-5	HEXADECANE, 2-METHYL-	19.34	96

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03

DATA FILE: J3070222.D

SAMPLE ID: C01Q9
LAB ID: 52720.03

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC	
			(ug/Kg)	
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	3.00	375	
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	250	
3) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.30	128	
4) 000619-99-8	HEXANE, 3-ETHYL-	4.00	439	7/9/03 sp
5) 000629-78-7	HEPTADECANE	18.37	106	
6) 000629-94-7	HENEICOSANE	19.34	98	
7) 000629-97-0	DOCOSANE	20.25	111	

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/11/03 DATA FILE: J3070223.D

SAMPLE ID: C01R0 MATRIX: SOIL
LAB ID: 52720.04 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
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1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.99	402
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	242
3) 003221-61-2	OCTANE, 2-METHYL-	3.30	138
4) 000112-95-8	EICOSANE	19.33	90
5) 000112-95-8	EICOSANE	20.26	98

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03

DATA FILE: J3070224.D

SAMPLE ID: C01R1

MATRIX: SOIL

LAB ID: 52720.05

DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.99	488
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	298
3) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.30	151
4) 001472-09-9	CYCLOPROPANE, OCTYL-	10.17	87
5) 000294-62-2	CYCLODODECANE	12.04	155

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03

DATA FILE: J3070309.D

SAMPLE ID: C01R3
LAB ID: 52720.06

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	222
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	122
3) 074663-85-7	CYCLOPROPANE, NONYL-	10.12	1545
4) 000294-62-2	CYCLODODECANE	11.99	283

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03 DATA FILE: J3070313.D

SAMPLE ID: C01R4 MATRIX: SOIL
LAB ID: 52720.09 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 001636-43-7	DECANE, 5,6-DIMETHYL-	3.17	245
2) 003221-61-2	OCTANE, 2-METHYL-	3.25	155
3) 000294-62-2	CYCLODODECANE	10.12	2282
4) 000294-62-2	CYCLODODECANE	11.99	549

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03

DATA FILE: J3070314.D

SAMPLE ID: C01R8
LAB ID: 52720.10

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 001636-43-7	DECANE, 5,6-DIMETHYL-	3.18	142
2) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.26	95
3) 000293-96-9	CYCLODECANE	11.99	159
4) 006294-39-9	CYCLOHEXANE, 1-BROMO-2-METHYL-	12.17	103
5) 000630-06-8	HEXATRIACONTANE	20.20	86

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03

DATA FILE: J3070315.D

SAMPLE ID: C01R9
LAB ID: 52720.11

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	286
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	146
3) 000293-96-9	CYCLODECANE	10.13	91
4) 000294-62-2	CYCLODODECANE	11.99	94

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03

DATA FILE: J3070316.D

SAMPLE ID: C01S0
LAB ID: 52720.12

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.18	175
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	121
3) 000112-95-8	EICOSANE	19.28	123
4) 000297-03-0	CYCLOTETRACOSANE	19.33	510
5) 000593-45-3	OCTADECANE	20.20	105
6) 000287-13-8	TRICYCLO[4.1.0.02,7]HEPTANE	21.21	103

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03 DATA FILE: J3070317.D

SAMPLE ID: C01S1 MATRIX: SOIL
LAB ID: 52720.13 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	147
2) 006975-98-0	DECANE, 2-METHYL-	3.26	77
3) 000617-78-7	PENTANE, 3-ETHYL-	5.33	71

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03

DATA FILE: J3070318.D

SAMPLE ID: C01S2
LAB ID: 52720.14

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.18	212
2) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.26	139
3) 000629-92-5	NONADECANE	19.28	85
4) 000629-78-7	HEPTADECANE	20.21	186
5) 000544-85-4	DOTRIACONTANE	21.12	83

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03 DATA FILE: J3070319.D

SAMPLE ID: C01S6 MATRIX: SOIL
LAB ID: 52720.15 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.18	193
2) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.27	125
3) 000921-47-1	HEXANE, 2,3,4-TRIMETHYL	3.96	218

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03

DATA FILE: J3070320.D

SAMPLE ID: C01S8
LAB ID: 52720.16

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)	
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.18	147	
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	124	
3) 000627-08-7	PROPANE, 1-(1-METHYLETHOXY)	3.83	89	7/9/03
4) 000294-62-2	CYCLODODECANE	10.13	2340	✓
5) 032281-85-9	CYCLOPENTANE, 2-ISOPROPYL-1,3-DIMET	19.34	89	
6) 001560-89-0	HEPTADECANE, 2-METHYL-	20.20	89	

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03

DATA FILE: J3070321.D

SAMPLE ID: C01S9
LAB ID: 52720.17

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)	
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	189	
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	94	
3) 000619-99-8	HEXANE, 3-ETHYL-	3.96	312	7/9/03
4) 000291-64-5	CYCLOHEPTANE	10.13	121	
5) 000294-62-2	CYCLODODECANE	11.99	254	
6) 001560-86-7	NONADECANE, 2-METHYL-	19.29	96	
7) 000112-95-8	EICOSANE	20.20	84	

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03 DATA FILE: J3070322.D

SAMPLE ID: C01T3 MATRIX: SOIL
LAB ID: 52720.18 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
<hr/>			
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	159
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	116
3) 000294-62-2	CYCLODODECANE	11.99	96
4) 003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	15.90	97
5) 000112-95-8	EICOSANE	17.26	158
6) 003386-33-2	OCTADECANE, 1-CHLORO-	18.09	121

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03 DATA FILE: J3070323.D

SAMPLE ID: C01T4 MATRIX: SOIL
LAB ID: 52720.19 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	181
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	93
3) 000629-92-5	NONADECANE	13.53	92
4) 000112-95-8	EICOSANE	14.23	148
5) 000112-40-3	DODECANE	14.73	106
6) 000112-95-8	EICOSANE	14.88	113
7) 000629-92-5	NONADECANE	15.08	82
8) 000112-95-8	EICOSANE	15.51	112
9) 054833-48-6	HEPTADECANE, 2,6,10,15-TETRAMETHYL-	15.74	133
10) 000544-85-4	DOTRIACONTANE	15.89	166
11) 000638-67-5	TRICOSANE	16.12	87
12) 000629-94-7	HENEICOSANE	16.22	132
13) 013287-23-5	HEPTADECANE, 8-METHYL-	16.36	128
14) 077536-31-3	DOCOSANE, 2,21-DIMETHYL-	16.49	79
15) 000629-78-7	HEPTADECANE	16.70	132
16) 000646-31-1	TETRACOSANE	16.82	98
17) 000112-40-3	DODECANE	17.03	78
18) 000112-95-8	EICOSANE	17.26	273
19) 000629-97-0	DOCOSANE	17.81	176
20) 000630-01-3	HEXACOSANE	18.11	186

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03

DATA FILE: J3070324.D

SAMPLE ID: C01T5
LAB ID: 52720.20

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC	
			(ug/Kg)	
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.18	191	
2) 003221-61-2	OCTANE, 2-METHYL-	3.26	148	
3) 000294-62-2	CYCLODODECANE	10.13	2673	
4) 000294-62-2	CYCLODODECANE	12.00	1308	
5) 054824-04-3	CYCLOHEXANE, 1-(CYCLOHEXYLMETHYL)-2	12.17	194	
6) 002425-54-9	TETRADECANE, 1-CHLORO	14.38	137	7/8/03
7) 000638-36-8	HEXADECANE, 2,6,10,14-TETRAMETHYL-	17.26	158	
8) 000593-45-3	OCTADECANE	20.21	81	✓

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03 DATA FILE: J3070325.D

SAMPLE ID: C01T6 MATRIX: SOIL
LAB ID: 52720.21 DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.17	140

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/07/03

DATA FILE: J3070326.D

SAMPLE ID: C01T7
LAB ID: 52720.22

MATRIX: SOIL
DATE ANALYZED: 07/03/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 000619-99-8	HEXANE, 3-ETHYL-	3.17	134
2) 000294-62-2	CYCLODODECANE	11.99	138
3) 004413-21-2	CYCLOPENTANE, 1,1'-ETHYLIDENEbis-	12.17	157
4) 000630-01-3	HEXADECANE	14.73	131
5) 001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	15.09	86
6) 000629-50-5	TRIDECAKE	15.74	85
7) 001560-92-5	HEXADECANE, 2-METHYL-	15.90	129
8) 003386-33-2	OCTADECANE, 1-CHLORO-	16.23	95
9) 000646-31-1	TETRACOSANE	16.36	108
10) 003386-33-2	OCTADECANE, 1-CHLORO-	17.26	209
11) 054105-67-8	HEPTADECANE, 2,6-DIMETHYL-	17.55	186
12) 000930-02-9	OCTADECANE, 1-(ETHENYLOXY)-	17.81	211
13) 000638-36-8	HEXADECANE, 2,6,10,14-TETRAMETHYL-	18.11	181
14) 000629-92-5	NONADECAKE	18.31	126
15) 075163-97-2	OCTADECANE, 2,6-DIMETHYL-	18.50	96
16) 069147-03-1	CYCLOPROPANE, 1,1-DIMETHYL-2-(2-MET	19.02	87
17) 000629-97-0	DOCOSANE	19.37	357
18) 000646-31-1	TETRACOSANE	20.20	114
19) 054832-82-5	TRICYCLO[4.3.0.07,9]NONANE, 2,2,5,5	20.43	87

7/9/03

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/02/03

DATA FILE: J3070208.D

SAMPLE ID: SBLK /
LAB ID: BL0626SD

MATRIX: SOIL
DATE ANALYZED: 07/02/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
<hr/>			
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.99	395
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	149
3) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.29	105
4) 074663-85-7	CYCLOPROPANE, NONYL-	10.16	1819
5) 000294-62-2	CYCLODODECANE	12.03	387

**SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A / Broken Arrow, OK 74012
918-251-2858**

SDG NARRATIVE

July 15, 2003

CONTRACT NO.: 68W03024

CASE NO.: 31878

SAMPLE NOS.: C01R2, C01R5, C01R6, C01R7, C01S3, C01S4, C01S5, C01S7, C01S7MS, C01S7MSD, C01X7,
C01X8, C01Y0

SDG NO.: C01W1

VOLATILE FRACTION

Eleven soil samples plus MS/MSD were submitted for Volatile Organic Analysis. The samples were analyzed by GC/MS following the OLM04.3 CLP Statement of Work.

Alternate columns used for the analysis of volatile compounds by Method OLM04.3 are the Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 1um film thickness (Restek #12253) and the DB624, 75m, 0.53mmID Megabore, 3um film thickness (J&W 125-1374).

Alternate traps used for the analysis of volatile compounds by method OLM04.3 are the Supelco Vocarb 3000 (Carbopack B-10cm, Carboxen 1000-6cm, Carboxen 1001-1cm) and the Tekmar #2 (Tenax-15cm, silica gel-7.5cm).

No significant problems occurred during the analyses of these samples.

Blanks: VBLK1 and VBLK2 each contained low level methylene chloride contamination less than the CRQL.

Surrogates: All surrogates were within QC recovery limits.

Matrix Spikes: Sample C01S7MS contained three compounds and C01S7MSD contained two compounds outside QC recovery limits. All compounds were within their RPD limits.

Internal Standards: All internal standard areas were within QC recovery limits.

A manual integration report is included with each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his/her designee, as verified by the following signature.



Samuel B. Alexander Jr.
Volatile Department Supervisor

July 15, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858
SDG NARRATIVE
July 24, 2003

CONTRACT: 68W03024
CASE NO: 31878
SDG NO: C01W1
SAMPLES: C01W1, C01R2, C01R5, C01R6, C01R7, C01S3, C01S4, C01S5, C01S7, C01S7MS, C01S7MSD,
C01T0, C01T1, C01T2, C01T8, C01T9, C01W0, C01X7, C01X8, and C01Y0.

SEMIVOLATILE FRACTION

Eighteen soil samples plus MS/MSD were submitted for semivolatile organic analyses. The samples were analyzed by GC/MS following the OLM04.3 CLP Organic Statement of Work.

The following column is used for the semivolatile analysis: Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 0.25um film thickness (Restek #12223).

No significant problems were encountered during the extraction or analysis of these samples.

Sample coolers arrived at 4.3, 5.7, 5.1 degrees Celsius. PE arrived in a cardboard box. Note: All cooler temperatures are taken with a ISO 9001 certified RayTek Model # 3MC11 infra-red (IR) temperature detector using the cooler temperature blanks when submitted with the samples. The DC-1 forms indicate which samples if any did not have cooler temperature blanks submitted, in these cases, the temperature is taken from a random sample within the cooler.

The following samples had alkanes reported and the reports are included at the end of this SDG Narrative: C01R2, C01R5, C01R6, C01R7, C01S3, C01S4, C01S5, C01S7, C01T0, C01T1, C01T2, C01T8, C01T9, C01W0, C01W1, C01X7, C01X8, C01Y0, and SBLK1.

Blanks: SBLK1 and SBLK2 had low level phthalate contamination detected below CRQL.

Surrogates: All surrogate recoveries were within QC limits.

Matrix Spike: All matrix spike compounds were within QC recovery limits with one exception: Sample C01P0MS and MSD had low recovery for Pentachlorophenol at 9% and 14%, respectively. There was one RPD outside QC limits.

Internal standards: All internal standard responses were within QC limits.

NOTE: A manual integration report is included for each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration.

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his/her designee, as verified by the following signature.

Diana L. Hoke
Organic Program Manager

July 24, 2003

2

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858
SDG NARRATIVE
July 28, 2003

CONTRACT: 68W03024
CASE NO: 31878
SDG NO: C01W1
SAMPLES: C01W1, C01R2, C01R5, C01R6, C01R6DL, C01R7, C01R7DL, C01S3, C01S4, C01S5, C01S7,
C01S7MS, C01S7MSD, C01T0, C01T1, C01T2, C01T2DL, C01T8, C01T9, C01W0, C01X7,
C01X7DL, C01X8, and C01Y0.
FRACTION: Pesticide/PCB

Eighteen soil samples plus MS/MSD were analyzed for Pesticides/PCBs, by EPA SOW OLM04.3.

Columns: The samples were analyzed on dual analytical columns, DB-17 / DB-1701 and CLP-PESTI / CLP-PESTII (length 30m, id 0.32 mm, film thickness 0.25 µm) columns were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns and they are kept on site. Helium was used as the carrier gas for all sample analyses.

Note: Many environmental samples can cause analysis problems due to interference peaks in the sample chromatograms along with degrading instrument performance. It should be noted that when large numbers of "interference" peaks and/or multi-response targets are present in a sample, false positives of single response compounds are common. Since ECD detection is not a definitive means of detection, single-response analytes in the presence of interference are reported per the method (if a peak is within a target analyte's retention time window on both columns, then it is reported as that target analyte). This lessens the possibility that false negative results will be reported. However, this may lead to false positives. The end data user should be aware of the limitations of the method and take appropriate care.

No major problems occurred with the extraction or analysis of these samples. Note: Samples C01R6, C01R7, C01S5, C01T2, C01X7 were analyzed initially with a 10-fold dilution due to the dark color of the sample extracts. This nature of sample extract historically causes system performance degradation resulting in breakdown products and ending calibration failures. The samples were then injected with no dilution as per the SOW. Both sets of data have been reported to show that these samples when injected onto the system straight cause instrument performance degradation and calibration failures but when diluted out do not. These diluted analyses are not considered billable.

GPC Check: All recoveries within QC limits.

Florisil Check: All recoveries were within QC limits.

Samples were sulfur cleaned.

Retention Times: All retention times were within method acceptance criteria.

Resolution Checks: All Resolution Checks were within method acceptance criteria.

Breakdown Products: All Breakdown products were within method acceptance criteria.

Initial Calibrations: All components within method acceptance criteria.

Calibration Verifications: All components within method acceptance criteria with the following exceptions: Percent difference value of each of the single component pesticides and surrogates in several of the INDA, INDB and PEM is greater than 25.0% on one or both columns (see comment above).

Blinks: PBLKSB and PBLKSC contained low level Heptachlor contamination below CRQL.

Surrogates: All surrogates were within QC recovery limits.

Matrix Spikes: All matrix spikes were within QC recovery limits.

The following tables list the total nanograms injected on column for each calibration standard based upon amount injected, 0.5 μ L, 1 μ L, or 2 μ L: Note: All calibration and sample analyses are done using 1 μ L injected and split on to two columns. Therefore amount on each column is 0.5 μ L injected.

RESOLUTION CHECK

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
gamma-Chlordane	0.005	0.01	0.02
Endosulfan I	0.005	0.01	0.02
4,4'-DDE	0.01	0.02	0.04
Dieldrin	0.01	0.02	0.04
Endosulfan Sulfate	0.01	0.02	0.04
Endrin Ketone	0.01	0.02	0.04
Methoxychlor	0.5	0.1	0.2
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

PERFORMANCE EVALUATION

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
gamma-BHC	0.005	0.01	0.02
alpha-BHC	0.005	0.01	0.02
4,4'-DDT	0.05	0.1	0.2
beta-BHC	0.005	0.01	0.02
Endrin	0.025	0.05	0.1
Methoxychlor	0.125	0.25	0.5
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

INDIVIDUAL STANDARD MIXTURE A – LOW

Compounds	Total nanograms (0.5 μ L)	Total nanograms (1 μ L)	Total nanograms (2 μ L)
alpha-BHC	0.0025	0.005	0.01
Heptachlor	0.0025	0.005	0.01
gamma-BHC	0.0025	0.005	0.01
Endosulfan I	0.0025	0.005	0.01
Dieldrin	0.005	0.01	0.02
Endrin	0.005	0.01	0.02
4,4'-DDD	0.005	0.01	0.02
4,4'-DDT	0.005	0.01	0.02
Methoxychlor	0.025	0.05	0.1
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE B -- LOW

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.0025	0.005	0.01
delta-BHC	0.0025	0.005	0.01
Aldrin	0.0025	0.005	0.01
Heptachlor epoxide	0.0025	0.005	0.01
alpha-Chlordane	0.0025	0.005	0.01
gamma-Chlordane	0.0025	0.005	0.01
4,4'-DDE	0.005	0.01	0.02
Endosulfan sulfate	0.005	0.01	0.02
Endrin aldehyde	0.005	0.01	0.02
Endrin ketone	0.005	0.01	0.02
Endosulfan II	0.005	0.01	0.02
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE A -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.01	0.02	0.04
Heptachlor	0.01	0.02	0.04
gamma-BHC	0.01	0.02	0.04
Endosulfan I	0.01	0.02	0.04
Dieldrin	0.02	0.04	0.08
Endrin	0.02	0.04	0.08
4,4'-DDD	0.02	0.04	0.08
4,4'-DDT	0.02	0.04	0.08
Methoxychlor	0.1	0.2	0.4
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE B -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.01	0.02	0.04
delta-BHC	0.01	0.02	0.04
Aldrin	0.01	0.02	0.04
Heptachlor epoxide	0.01	0.02	0.04
alpha-Chlordane	0.01	0.02	0.04
gamma-Chlordane	0.01	0.02	0.04
4,4'-DDE	0.02	0.04	0.08
Endosulfan sulfate	0.02	0.04	0.08
Endrin aldehyde	0.02	0.04	0.08
Endrin ketone	0.02	0.04	0.08
Endosulfan II	0.02	0.04	0.08
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE A -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.04	0.08	0.16
Heptachlor	0.04	0.08	0.16
gamma-BHC	0.04	0.08	0.16
Endosulfan I	0.04	0.08	0.16
Dieldrin	0.08	0.16	0.32
Endrin	0.08	0.16	0.32
4,4'-DDD	0.08	0.16	0.32
4,4'-DDT	0.08	0.16	0.32
Methoxychlor	0.4	0.8	1.6
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

INDIVIDUAL STANDARD MIXTURE B -- HIGH

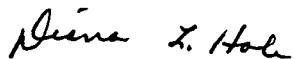
Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.04	0.08	0.16
delta-BHC	0.04	0.08	0.16
Aldrin	0.04	0.08	0.16
Heptachlor epoxide	0.04	0.08	0.16
alpha-Chlordane	0.04	0.08	0.16
gamma-Chlordane	0.04	0.08	0.16
4,4'-DDE	0.08	0.16	0.32
Endosulfan sulfate	0.08	0.16	0.32
Endrin aldehyde	0.08	0.16	0.32
Endrin ketone	0.08	0.16	0.32
Endosulfan II	0.08	0.16	0.32
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

MULTI-RESPONSE STANDARD MIXTURES

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
Aroclor-1016	0.05	0.1	0.2
Aroclor-1221	0.1	0.2	0.4
Aroclor-1232	0.05	0.1	0.2
Aroclor-1242	0.05	0.1	0.2
Aroclor-1248	0.05	0.1	0.2
Aroclor-1254	0.05	0.1	0.2
Aroclor-1260	0.05	0.1	0.2
Toxaphene	0.25	0.5	1.0

Note: A manual integration report is included for each manual integration performed on this data including a before and after picture of the peak, as well as the reason for the integration.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Diana L. Hoke
Organic Program Manager

July 28, 2003

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03 DATA FILE: J3070811.D

SAMPLE ID: C01R2 MATRIX: SOIL
LAB ID: 52729.01 DATE ANALYZED: 07/08/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.93	320
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.15	146
3) 003221-61-2	OCTANE, 2-METHYL-	3.22	96

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03 DATA FILE: J3070812.D

SAMPLE ID: C01R5 MATRIX: SOIL
LAB ID: 52729.02 DATE ANALYZED: 07/08/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.93	319
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.15	164
3) 003221-61-2	OCTANE, 2-METHYL-	3.23	110
4) 004413-21-2	CYCLOPENTANE, 1,1'-ETHYLIDENEbis-	12.12	115

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03 DATA FILE: J3070716.D

SAMPLE ID: C01R6 MATRIX: SOIL
LAB ID: 52729.03 DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 002404-35-5	CYCLOHEPTANE, BROMO-	12.07	165
2) 000646-31-1	TETRACOSANE	16.60	121
3) 000112-95-8	EICOSANE	17.15	157
4) 000629-62-9	PENTADECANE	17.69	137
5) 001928-30-9	TRICOSANE, 2-METHYL-	18.20	208
6) 003386-33-2	OCTADECANE, 1-CHLORO-	18.70	108
7) 000630-03-5	NONACOSANE	19.18	123
8) 000629-97-0	DOCOSANE	20.11	189
9) 000629-92-5	NONADECANE	20.54	193

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/22/03

DATA FILE: J3072112.D

SAMPLE ID: C01R7
LAB ID: 52729.04

MATRIX: SOIL
DATE ANALYZED: 07/21/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.84	377
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.06	239

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03

DATA FILE: J3070718.D

SAMPLE ID: C01S3
LAB ID: 52729.05

MATRIX: SOIL
DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.12	193
2) 003221-61-2	OCTANE, 2-METHYL-	3.21	76
3) 074663-85-7	CYCLOPROPANE, NONYL-	10.04	2118
4) 000294-62-2	CYCLODODECANE	11.90	762
5) 054824-04-3	CYCLOHEXANE, 1-(CYCLOHEXYLMETHYL)-2	12.07	81
6) 003386-33-2	OCTADECANE, 1-CHLORO-	14.28	147

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03

DATA FILE: J3070719.D

SAMPLE ID: C01S4
LAB ID: 52729.06

MATRIX: SOIL
DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 001636-43-7	DECANE, 5,6-DIMETHYL-	3.12	155
2) 003221-61-2	OCTANE, 2-METHYL-	3.20	102
3) 074663-85-7	CYCLOPROPANE, NONYL-	10.04	142
4) 000294-62-2	CYCLODODECANE	11.91	175
5) 017455-13-9	<u>1,4,7,10,13,16-HEXAOXACYCLOOCTADECA</u>	10.34	128

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/22/03

DATA FILE: J3072113.D

SAMPLE ID: C01S5
LAB ID: 52729.07

MATRIX: SOIL
DATE ANALYZED: 07/21/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.84	279
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.06	197
3) 000921-47-1	HEXANE, 2,3,4-TRIMETHYL-	5.16	447 <i>7/23/03</i>
4) 017312-81-1	UNDECANE, 3,5-DIMETHYL-	16.54	145 <i>②</i>
5) 000629-59-4	TETRADECANE	17.09	161

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03

DATA FILE: J3070721.D

SAMPLE ID: C01S7
LAB ID: 52729.08

MATRIX: SOIL
DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.12	162
2) 074663-85-7	CYCLOPROPANE, NONYL-	10.04	2098
3) 054824-04-3	CYCLOHEXANE, 1-(CYCLOHEXYLMETHYL)-2	12.07	184
4) 000112-95-8	EICOSANE	19.18	126
5) 054833-48-6	HEPTADECANE, 2,6,10,15-TETRAMETHYL-	20.09	205

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03

DATA FILE: J3070722.D

SAMPLE ID: C01T0
LAB ID: 52729.11

MATRIX: SOIL
DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 074663-85-7	CYCLOPROPANE, NONYL-	10.04	2478
2) 000294-62-2	CYCLODODECANE	11.90	1662
3) 000334-68-9	DODECANE, 1-FLUORO-	14.27	461
4) 055045-10-8	TRIDECANE, 6-PROPYL-	19.18	433
5) 000630-07-9	PENTATRIACONTANE	20.10	601
6) 000638-68-6	TRIACONTANE	20.99	279

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03

DATA FILE: J3070723.D

SAMPLE ID: C01T1
LAB ID: 52729.12

MATRIX: SOIL
DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
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1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.12	150
2) 002216-34-4	OCTANE, 4-METHYL-	4.72	237
3) 000294-62-2	CYCLODODECANE	10.04	160
4) 000293-96-9	CYCLODECANE	11.90	207
5) 000638-67-5	TRICOSANE	18.21	216

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/08/03 DATA FILE: J3070724.D

SAMPLE ID: C01T2 MATRIX: SOIL
LAB ID: 52729.13 DATE ANALYZED: 07/07/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
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1) 006294-39-9	CYCLOHEXANE, 1-BROMO-2-METHYL-	12.07	151
2) 017455-13-9	1,4,7,10,13,16-HEXAOXACYCLOOCTADECA	18.33	164

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03

DATA FILE: J3070813.D

SAMPLE ID: C01T8
LAB ID: 52729.14

MATRIX: SOIL
DATE ANALYZED: 07/08/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.93	264
2) 056820-01-0	TRANS-2,3-EPOXYNONANE	2.97	106 <i>7/18/03</i>
3) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.15	99 <i>7/18/03</i>
4) 003221-61-2	OCTANE, 2-METHYL-	3.23	82
5) 004413-21-2	CYCLOPENTANE, 1,1'-ETHYLIDENEbis-	12.12	154
6) 017455-13-9	1,4,7,10,13,16-HEXAOXACYCLOOCTADECA	18.39	140 <i>7/18/03</i>

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03

DATA FILE: J3070907.D

SAMPLE ID: C01T9
LAB ID: 52729.15

MATRIX: SOIL
DATE ANALYZED: 07/09/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)	
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.12	291	
2) 003221-61-2	OCTANE, 2-METHYL-	3.20	168	
3) 000627-08-7	PROPANE, 1-(1-METHYLETHOXY)-	3.77	151	7/18/03
4) 000294-62-2	CYCLODODECANE	10.04	2687	00
5) 000294-62-2	CYCLODODECANE	11.90	721	
6) 000646-31-1	TETRACOSANE	17.16	174	
7) 000646-31-1	TETRACOSANE	18.01	96	

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03

DATA FILE: J3070815.D

SAMPLE ID: C01W0
LAB ID: 52729.16

MATRIX: SOIL
DATE ANALYZED: 07/08/03

CAS #	COMPOUND	RT	EST. CONC
			(ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.93	310
2) 074663-85-7	CYCLOPROPANE, NONYL-	10.08	237
3) 000294-62-2	CYCLODODECANE	11.95	288
4) 000000-00-0	2-METHYLOCTADECANE	14.18	228
5) 006418-46-8	EICOSANE, 3-METHYL-	14.68	458
6) 017312-62-8	DECANE, 5-PROPYL-	15.04	365
7) 000629-50-5	TRIDECANE	15.86	206
8) 007225-64-1	HEPTADECANE, 9-OCTYL-	16.18	204
9) 055045-10-8	TRIDECANE, 6-PROPYL-	16.66	411
10) 003386-33-2	OCTADECANE, 1-CHLORO-	17.00	609
11) 001560-89-0	HEPTADECANE, 2-METHYL-	17.09	291
12) 055429-84-0	TETRACOSANE, 11-DECYL-	17:22	1119
13) 000000-00-0	2-METHYLOCTADECANE	17.51	494
14) 000629-78-7	HEPTADECANE	17.67	255
15) 000638-67-5	TRICOSANE	17.77	367
16) 035599-77-0	TRIDECANE, 1-IODO-	17.95	213
17) 000593-49-7	HEPTACOSANE	18.06	286
18) 000638-36-8	HEXADECANE, 2,6,10,14-TETRAMETHYL-	19.33	524
19) 001928-30-9	TRICOSANE, 2-METHYL-	20.07	257
20) 000630-01-3	HEXACOSANE	20.16	379

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/03/03

DATA FILE: J3070219.D

SAMPLE ID: C01W1
LAB ID: 52720.23

MATRIX: SOIL
DATE ANALYZED: 07/02/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)	
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.99	380	
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	264	
3) 003221-61-2	OCTANE, 2-METHYL-	3.30	131	
4) 000111-65-9	OCTANE	4.00	300	7/8/03
5) 000112-95-8	EICOSANE	17.31	117	RF

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03

DATA FILE: J3070816.D

SAMPLE ID: C01X7
LAB ID: 52729.17

MATRIX: SOIL
DATE ANALYZED: 07/08/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.93	185
2) 001560-96-9	TRIDECANE, 2-METHYL-	15.69	174
3) 000630-01-3	HEXADECANE	17.21	315
4) 000000-00-0	2-METHYLOCTADECANE	18.27	284
5) 000646-31-1	TETRACOSANE	19.24	229
6) 000646-31-1	TETRACOSANE	20.17	266
7) 000638-68-6	TRIACONTANE	21.08	158

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPCRT

REPORT DATE: 07/09/03

DATA FILE: J3070908.D

SAMPLE ID: C01X8
LAB ID: 52729.18

MATRIX: SOIL
DATE ANALYZED: 07/09/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.11	200
2) 003221-61-2	OCTANE, 2-METHYL-	3.20	100
3) 000294-62-2	CYCLODODECANE	11.90	119
4) 006294-39-9	CYCLOHEXANE, 1-BROMO-2-METHYL-	12.07	99
5) 000000 00 0	1 Methyl 1 Phenyl Silacyclohexane	14.12	113

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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/09/03

DATA FILE: J3070818.D

SAMPLE ID: C01Y0
LAB ID: 52729.19

MATRIX: SOIL
DATE ANALYZED: 07/08/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.93	272
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.15	199
3) 003221-61-2	OCTANE, 2-METHYL-	3.24	94

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 07/02/03

DATA FILE: J3070207.D

SAMPLE ID: SBLK1
LAB ID: BL0626SE

MATRIX: SOIL
DATE ANALYZED: 07/02/03

CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.99	466
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	3.21	261
3) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	3.30	136
4) 074663-85-7	CYCLOPROPANE, NONYL-	10.17	1266

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